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Pomona College

Annual Catalog

1924-1925

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Pomona College

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REGISTER OF OFFICERS AND TEACHERS FOR THE YEAR 1924 - 1925, REQUIREMENTS FOR ADMISSION, DESCRIPTION OF COURSES AND GENERAL INFORMATION

November, 1924
CLAREMONT, CALIFORNIA
Published by the College

1924	1925		1926
JULY	JANUARY	JULY	JANUARY
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COLLEGE CALENDAR

	1924		
September	15,	*Monday*	Registration Days. Examinations for entrance.
September	16,	*Tuesday*	
September	17,	*Wednesday*	Convocation, 8:30 a. m.
September	17,	*Wednesday*	First Semester Classes begin, 10:15 a. m.
October	14,	*Tuesday*	Founders Day.
November	27,	*Thursday*	Thanksgiving Day.
December	19,	*Friday*	Christmas Recess begins, 4:15 p. m.
	1925		
January	5,	*Monday*	Christmas Recess ends, 7:30 a. m.
January	19,	*Monday*	Kinney Freshman Contest in Declamation, 8 p. m.
January	21,	*Wednesday*	Mid-year Examinations.
		to	
January	31,	*Saturday*	
January	31,	*Saturday*	First Semester ends.
January	31,	*Saturday*	Mid-year Graduation.
February	2,	*Monday*	Registration Day for underclassmen and specials.
February	3,	*Tuesday*	Registration Day for upperclassmen and graduates.
February	4,	*Wednesday*	Second Semester Classes begin, 7:30 a. m.
February	19,	*Thursday*	Matriculation Day.
February	22,	*Sunday*	Washington's Birthday.
March	27,	*Friday*	Spring Recess begins, 4:15 p. m.
April	7,	*Tuesday*	Spring Recess ends, 7:30 a. m.
May	30,	*Saturday*	Memorial Day.
June	3,	*Wednesday*	Final Examinations.
		to	
June	11,	*Thursday*	
June	15,	*Monday*	Commencement.

SUMMER VACATION

September	16,	*Wednesday*	Registration Days. Examinations for entrance.
September	17,	*Thursday*	
September	18,	*Friday*	Convocation, 8:30 a. m.

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HISTORICAL SKETCH

THE history of the development of Southern California from a land sparsely inhabited and apparently fit only for a cattle range, into a genuine American commonwealth with its multitude of prosperous communities, covers little more than forty years; but this brief span of time has been a period of intense activity and remarkable growth. This epoch of swift progress was inaugurated by the completion of a second transcontinental railway, in this case piercing Southern California directly from the East, together with the sudden awakening to a realization of the great agricultural possibilities of the section through irrigation. A large immigration and a rapid increase in land values were at once induced. New towns sprang up almost in a day and great industrial projects characteristic of such a period were at once inaugurated.

While the commercial and speculative interests were conspicuously in evidence there were among the new settlers, nevertheless, many whose chief concern was for the higher values of life and character. Not least among these were those whose former affiliations had been with New England and its institutions. The Southern California District Association of Congregational Churches, meeting in San Bernardino in 1882, agitated the question of founding a college of the New England type. In 1886 the Association met at Lugonia (now Redlands), when the report of the educational committee was an earnest appeal for such a college. At this meeting a larger educational committee than usual was appointed and was instructed to view locations and invite proposals of aid toward establishing a "Christian College of the New England Type." In accordance with these instructions the committee visited various places from which they had received offers of aid and gave the matter serious and careful consideration.

In May, 1887, the District Association met in Los Angeles and became the General Association of Southern California. This General Association immediately gave full power to its committee of education, not only to select the College site, but to appoint trustees for the prospective institution. Fifteen trustees, two of whom are still members of the board, were duly appointed; the College was incorporated October 14, 1887, under the name of The Pomona College; and a site was selected about four miles north of the city of Pomona.

For the immediate needs of the College a small private house was rented in Pomona, and in it the work of instruction was begun in September, 1888. In the following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. It was originally supposed that this location would be temporary; the name of the College was therefore retained in the expectation that ultimately the site originally selected would be used. Later this plan was abandoned and Claremont was made the permanent seat of the College. By this time, however, the name of "Pomona College" had become so definitely fixed that it has been retained notwithstanding the change of location.

The growth of the College has been swift and constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. For some time the work of the Preparatory School was of large importance, but later on this was discontinued owing to the increased growth and importance of the College. The maximum number which can now be received is 750. This situation allows the College to accept only two hundred and twenty-five Freshmen, one hundred and twenty-five men and one hundred women, and at the present time compels the rejection of a large number of applications. The original campus of about twelve acres has been enlarged by purchase and by gifts until it now comprises approximately four hundred

acres; and this area, together with its buildings, is being developed according to plans carefully worked out by competent landscape gardeners and architects, the whole growth being in accord with one harmonious plan. All this rapid progress of the institution has been made possible by a most generous company of friends who have responded nobly to the calls of higher Christian education and to the needs of young people. From the very beginning the institution has been the creation of sacrifice, affection and idealism. To a remarkable degree the College has been made possible by a great democracy of high-minded givers, and the character of these benefactors is reflected in the daily life and procedure of the College.

While the College was originally Congregational in organization, it long ago made itself the servant of a wider fellowship. The Board of Trustees is a self-perpetuating body, absolutely free from ecclesiastical control and representing different communions, but obliged, nevertheless, by the College Charter to maintain the institution as truly Christian, though unsectarian. From the first it has been the policy of all concerned in the administration of the institution to maintain a high standard of college life and work, and to put the emphasis upon quality in the development of strong and serviceable Christian manhood and womanhood. Thus the purpose for which the College was founded is expressed in its motto, "*Our Tribute to Christian Civilization.*"

BOARD OF TRUSTEES

GEORGE W. MARSTON, *President*	San Diego
RT. REV. JOSEPH H. JOHNSON, D.D., *Vice-President*	Los Angeles
ELI P. CLARK, *Second Vice-President*	Los Angeles
REV. CHARLES B. SUMNER, LL.D., *Secretary*	Claremont

HONORARY TRUSTEES

REV. CHARLES B. SUMNER, LL.D.	Claremont
CHARLES E. HARWOOD, LL.D.	Upland

Term of Office Expires June, 1925

DONALD G. APLIN	Highland
LLEWELLYN BIXBY	Long Beach
C. STANLEY CHAPMAN	Fullerton
ELI P. CLARK	Los Angeles
JOHN M. CURRAN	Santa Barbara
GEORGE W. MARSTON	San Diego

Term of Office Expires June, 1926

A. J. CROOKSHANK	Santa Ana
JAMES S. EDWARDS	Redlands
RT. REV. JOSEPH H. JOHNSON, D.D.	Los Angeles
FREDERICK W. LYMAN	Pasadena
ARTHUR J. MCFADDEN	Santa Ana
BUTLER A. WOODFORD	Claremont

Term of Office Expires June, 1927

ARTHUR S. BENT	Los Angeles
EDWIN F. HAHN	Pasadena
JACOB C. HARPER	La Jolla
STEPHEN H. HERRICK	Riverside
SEELEY W. MUDD	Los Angeles
WILLIAM O. WARK	Claremont

Term of Office Expires June, 1928

REV. HENRY K. BOOTH, D.D.	Long Beach
ARTHUR M. DOLE	Pomona
WILLIAM S. MASON	Evanston, Ill.
REV. CARL S. PATTON, D.D.	Los Angeles
DELL A. SCHWEITZER	Los Angeles
CHARLES E. WALKER	Los Angeles

Term of Office Expires June, 1929

JAMES A. BLAISDELL, D.D., LL.D.	Claremont
REV. LUTHER FREEMAN, D.D.	Pomona
EDWARD HARWOOD	Upland
FRANK H. HARWOOD	San Dimas
W. R. H. WELDON	South Pasadena
FRED M. WILCOX	Lamanda Park

OFFICERS OF THE BOARD

James A. Blaisdell, *President of the College*
Ernest E. Jones, *Treasurer and Assistant Secretary*
George S. Sumner, *Controller*
Robert J. Bernard, *Executive Secretary*

COMMITTEES OF THE BOARD

Executive

James A. Blaisdell, *Chairman*

Arthur M. Dole
Dell A. Schweitzer
Butler A. Woodford
Frank H. Harwood
Charles E. Walker
Luther Freeman

Investments

Ernest E. Jones

Arthur S. Bent
Llewellyn Bixby
A. J. Crookshank
Fred M. Wilcox

Ways and Means

William O. Wark, *Chairman*

Arthur S. Bent
James A. Blaisdell
C. Stanley Chapman
A. J. Crookshank
John M. Cubran
James S. Edwards
Jacob C. Harper
Frank H. Harwood
Arthur J. McFadden
Seeley W. Mudd
Dell A. Schweitzer
W. R. H. Weldon
Fred M. Wilcox

Louise Billings, *Secretary*

Education

James A. Blaisdell
Llewellyn Bixby
William O. Wark
Carl S. Patton
Edwin F. Hahn

Buildings and Grounds

Charles B. Sumner
George W. Marston
William S. Mason

Nominations

Donald G. Aplin
Arthur J. McFadden
W. R. H. Weldon

FACULTY

JAMES ARNOLD BLAISDELL — 345 College Ave.

President, 1910[1]

B.A., Beloit College; M.A., Beloit College; D.D., Beloit College; LL.D., Drury College and Occidental College. Graduate, Hartford Theological Seminary.

CYRUS GRANDISON BALDWIN — Palo Alto

President Emeritus, 1890

B.A., Oberlin College; M.A., Oberlin College. Student, Andover Theological Seminary; D.D., Oberlin College.

EDWIN CLARENCE NORTON — 137 W. Seventh St.

Dean of the Faculty Emeritus and Professor of the Greek Language and Literature on the Edwin Clarence Norton Foundation, 1888

B.A., Amherst College; M.A., Amherst College and Yale University; Ph.D., Carleton College; D.D., Pacific Theological Seminary. Graduate Student, Johns Hopkins, Columbia and Oxford Universities.

ERNEST JAMES JAQUA — Harvard and Mesa Aves.

Dean of the Faculty and Professor of Education, 1923.

B.A., Grinnell College; M.A., Columbia University; Ph.D., Harvard University.

FRANK PARKHURST BRACKETT[2] — 270 E. Third St.

Professor of Astronomy on the Frank Parkhurst Brackett Foundation and Director of the Observatory, 1888.

B.A., Dartmouth College; M.A., Dartmouth College. Honorary Fellow, Clark University.

PHEBE ESTELLE SPALDING — 261 W. Fifth St.

Professor of English Literature on the Phebe Estelle Spalding Foundation, 1889.

B.L., Carleton College; M.L., Carleton College; Ph.D., Boston University.

ARTHUR DART BISSELL — 319 Harvard Ave.

Professor of German, 1892.

B.A., Amherst College; M.A., Amherst College; B.D., Yale University; Ph.D., Yale University. Graduate Student, University of Leipzig.

GEORGE GALE HITCHCOCK — 721 College Ave.

Professor of Physics, 1892.

B.A., University of Nebraska. Graduate Student, Johns Hopkins and Cornell Universities.

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[1]The date in each case denotes the beginning of original term of service.

[2]Absent on leave, first semester, 1924-1925.

GRACE ELLA BERRY — 541 Harvard Ave.

Dean of Women and Assistant Professor of Mathematics, 1909.

B.S., Mount Holyoke College; M.A., Mount Holyoke College.

JAMES ALEXANDER LYMAN — 833 Indian Hill Blvd.

Professor of Chemistry, 1909.

B.A., Beloit College; M.A., Beloit College; Ph.D., Johns Hopkins University. Graduate Student, University of Chicago.

MILTON ERASTUS CHURCHILL — 507 Yale Ave.

Secretary of the Faculty and Associate Professor of German, 1902.

B.A., Knox College; M.A., Knox College; Litt.D., Knox College; B.D., Yale University. Graduate Student, University of Leipzig.

MENDAL GARBUTT FRAMPTON — 927 Harvard Ave.

Professor of the English Language, 1904.

B.A., Illinois College; M.A., Illinois College; M.A., Harvard University. Graduate Student, Harvard and Chicago Universities.

CHARLES GRACCHUS NEELY — 739 College Ave.

Professor of Constitutional History and Law, 1911.

B.L., University of Illinois.

WILLIAM ATWOOD HILTON — 1293 Dartmouth Ave.

Professor of Zoology on the Willard George Halstead Foundation, 1905.

B.S., Cornell University; Ph.D., Cornell University.

ROBERT DAY WILLIAMS[1] — 260 E. Seventh St.

Professor of Experimental Psychology, 1909.

B.S., Pomona College; M.A., Yale University; Ph.D., Yale University. Graduate Student, University of California.

BERNARD CAPEN EWER — 706 Indian Hill Blvd.

Professor of Psychology, 1916.

B.A., Brown University; M.A., Brown University; Ph.D., Harvard University.

RALPH HAINE LYMAN — 357 W. Tenth St.

Professor of Applied Music and Instructor in Singing, Head of Department of Music, 1917.

B.A., Grinnell College. Student in voice with Karleton Hackett, William B. Olds, Grant Hadley, Arthur Middleton, Courtland Cooper, Holmes Cowper and other American masters and with Vittorino Moratti in Berlin.

MARO BEATH JONES — 218 W. Twelfth St.

Professor of Romanic Languages, 1911.

B.A., Boston University; M.A., Boston University. Graduate Student, Universities of Chicago, Geneva and Barcelona. Student, Estudis Universitaris Catalans, Barcelona.

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[1]Absent on leave, first semester, 1924-1925.

WILLIAM EVAN NICHOLL — 465 W. Sixth St.

Dean of the College and Assistant Professor of Education, 1919.

B.A., Bellevue College; M.A., Teachers College, Columbia University. Graduate Student, Edinburgh University.

HOMER ELMER ROBBINS — 487 Harrison Ave.

Professor of Classical History and Language, 1915.

B.A., University of Michigan; M.A., University of Michigan; Ph.D., University of Michigan. Graduate Student and holder of University and Buhl Classical Fellowships, University of Michigan.

WALDEMAR CHRISTIAN WESTERGAARD — 620 Harvard Ave.

Professor of History on the Warren F. Day Foundation, 1916.

B.A., University of North Dakota; M.L., University of California; Ph.D., University of California. Fellow in History, Cornell University.

ROBERT CHARLES DENISON — 232 W. Fifth St.

Professor of Philosophy, 1920.

B.A., Amherst College; B.D., Andover Theological Seminary; D.D., Amherst College.

RAYMOND CUMMINGS BROOKS — 489 W. Sixth St.

Professor of Religion on the Nancy M. Lyon Foundation, 1921.

B.A., Tabor College; B.D., Yale Divinity School; D.D., Tabor College and Whitman College. Graduate Student, Oberlin College.

BRUCE MCCULLY — 236 College Ave.

Professor of English Literature, 1921.

B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

WALTER EARLE HARTLEY — Resident's Suite, Smiley Hall

Professor of Organ and Piano, 1915.

B.A., Yale University; B.Mus., Yale University. Fellow, American Guild of Organists. Pupil of Widor, in Organ and Composition, and of Stubbs.

WILLIAM KIRK — 705 Indian Hill Blvd.

Professor of Social Economics, 1922.

B.A., Johns Hopkins University; Ph.D., Johns Hopkins University.

JOHN EDWIN GROSE — 620 Harvard Ave.

Professor of Military Science and Tactics, 1922.

B.A., University of West Virginia. Captain, Infantry, U. S. Army.

GEORGE MORTIMER TURNER — 1035 Columbia Ave.

Acting Professor of Chemistry, 1923.

B.S., Amherst College. Graduate Student, Johns Hopkins University.

CHARLES TABOR FITTS — 137 College Ave.

Registrar and Assistant Professor of English, 1919.

B.A., Amherst College. Graduate Student, University of California.

ROBERT JOHN TAYLOR — 1249 Harvard Ave.

Director of Extension Work in Religious Education and Acting Professor of Comparative Religion, 1923.

B.A., Hamline University; M.A., University of Southern California; D.D., Hamline University.

JOSEPH PIJOAN — 1041 Columbia Ave.

Acting Professor of Hispanic Civilization and Lecturer on the History of Art, 1924.

Lic. Architecture and Letters, University of Barcelona. Student, University of Rome.

FRANK WESLEY PITMAN — 1237 College Ave.

Acting Professor of History, 1924.

Ph.B., Yale University; M.A., Yale University; Ph.D., Yale University.

GEORGE DAVID BIRKHOFF

Harvard Exchange Professor of Mathematics.

Ph.D., University of Chicago; Sc.D., Brown University.

FRANZ XAVIER SCHAFFER

Lecturer in Geology on the Joseph H. Johnson Foundation, 1924.

WILLIAM POLK RUSSELL — 506 E. Sixth St.

Associate Professor of Mathematics on the Joseph W. Fiske Foundation, 1904.

B.A., Cumberland University; M.A., Cumberland University. Graduate Student, Columbia and Yale Universities.

HANNAH TEMPEST JENKINS — Claremont Inn

Associate Professor of Art and Design, 1905.

Graduate, Teachers College, Columbia University. Student, Philadelphia Academy of Fine Arts. Pupil of Jean Paul Laurens, Constant and St. Pierre in figure and portrait, of Henry Thompson in landscape, and of Wm. M. Chase, Robert Vonnoh and Cecilia Beaux in portrait. Paris Salonist, 1889.

EDWARD PAYSON BARTLETT[1]

Associate Professor of Chemistry, 1909.

B.A., Dartmouth College; M.A., Harvard University; Ph.D., Harvard University. Graduate Student, Columbia University.

VICTOR EDWARD MARRIOTT[2] — 116 E. Twelfth St.

Librarian, 1912.

B.A., Beloit College; M.A., University of California. Graduate Student, Yale University.

[1]Absent on leave, 1924-1925.
[2]Absent on leave, first semester, 1924-1925.

WALTER ALFRED ALLEN — 205 E. Ninth St.

Associate Professor of Musical Theory and Appreciation, and Instructor in Organ, 1912.

B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

PHILIP ALEXANDER MUNZ[1]

Associate Professor of Botany on the Henry Kirke White Bent Foundation, 1917.

B.A., University of Denver; M.A., University of Denver; Ph.D., Cornell University. Graduate Student, University of Chicago.

GEORGE SAMUEL BURGESS — 154 E. Tenth St.

Associate Professor of Political Economy on the Stedman-Sumner Foundation, 1918.

B.A., University of Michigan; J.D., University of Michigan.

EUGENE WHITE NIXON — 1034 Harvard Ave.

Associate Professor of Physical Training for Men, 1916.

B.A., Monmouth College. Graduate Student, Illinois, California and Columbia Universities.

EDWARD TAYLOR — 370 W. Twelfth St.

Associate Professor of Mechanics, 1920.

C.E., University of Minnesota. Graduate Student, University of Oregon.

EVERETT SAMUEL OLIVE

Associate Professor of Piano, 1923.

B.Mus., Simpson College. Graduate Student, Simpson College. Pupil of Moritz Mayer-Mahr and Mme. Teresa Carreno in Berlin.

ELLIOTT CURTIS LINCOLN — 365 E. Eighth St.

Associate Professor of English Literature, 1924.

B.A., Colby College; M.A., State College of Washington and Harvard University.

ROBERT TRESILIAN BELCHER — 452 W. Sixth St.

Assistant Professor of Mathematics and Engineering, 1907.

B.A., Queen's University. Graduate Student, Queen's College and University of California.

FRANK DAVID THOMSON — 640 Indian Hill Blvd.

Assistant Professor of Accounting and Commercial Subjects, 1918.

B.A., Knox College; M.A., Knox College. Graduate Student, Johns Hopkins University.

ALFRED OSWALD WOODFORD — 639 Yale Ave.

Assistant Professor of Geology, 1915.

B.A., Pomona College; Ph.D., University of California.

[1]Absent on leave, 1924-1925.

ARMANDO THOMAS BISSIRI — 709 College Ave.

Assistant Professor of Romanic Languages, 1920.

Liceo Mamiani, Rome. Dottore in Giurisprudenza, Royal University, Rome. Graduate Student, University of Southern California and Universidad Nacional, Mexico.

ALICE EVANS — 618 Harvard Ave.

Assistant Professor of Physical Education for Women, 1920

B.A., Smith College. Graduate Student, Wellesley College.

CLIFFORD NOTT HAND — 1122 College Ave.

Director of Religious Interests, 1919.

B.L., Pomona College; B.D., Pacific School of Religion; M.A., University of Southern California; Graduate Student, University of California.

ARTHUR BABCOCK — 1133 Yale Ave.

Assistant Professor of Singing, 1921.

Graduate of the New England Conservatory of Music. Member of faculty of the New England Conservatory of Music. Pupil of Sbriglia, in Paris.

EDWARD KAMINSKI — 136 E. Ninth St.

Assistant Professor of Art, 1921.

Student, St. Bonaventure College, Wisconsin School of Art and Parsons School, New York. Pupil of Frederick Fersman in Oil Painting.

BENJAMIN DAVID SCOTT — 828 College Ave.

Assistant Professor of Public Address, 1923.

B.A., University of Southern California; S.T.B., Boston University; Ph.D., Boston University. Graduate work, Boston, Brown and Harvard Universities.

FRANZ RICKABY — 1244 College Ave.

Assistant Professor of English, 1923.

B.S., Knox College; M.A., Harvard University.

RALPH RAYMOND UNIACKE — 336 W. Eighth St.

Assistant Professor of Violin, 1923.

Pupil of Franz Milcke.

PAUL ATWOOD HARVEY — Sixth St. and Mills Ave.

Assistant Professor of Botany, 1924.

B.S., Oregon Agricultural College; M.S., University of Minnesota.

MABLE CLAIR WEST[1]

Instructor in Piano, 1905.

B.S., Pomona College. Graduate Student, Peabody Conservatory of Music, Baltimore. Pupil of Ernest Hutcheson.

[1]Absent on leave, 1924-1925.

ALMA MOZELLE ANDERSON — 1228 College Ave.

Instructor in Romanic Languages, 1919.

B.A., Colorado College. Graduate Student, University of California.

ROSA FRIEDA BISSIRI — 709 College Ave.

Instructor in French, 1920.

B.A., Kreuzlingen College, Switzerland.

MARION JEANETTE EWING — 487 W. Sixth St.

Acting Librarian, 1912.

B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

LEO GEORGE CLARKE — 1030 Dartmouth Ave.

Instructor in Military Science and Tactics, 1923.

First Lieutenant, Infantry, U. S. Army.

COLVIN HEATH — 270 W. Twelfth St.

Instructor in Physical Education for Men, 1922.

B.A., Pomona College.

CONSTANCE KILHAM GREENE — 130 W. Seventh St.

Instructor in Physical Education for Women, 1923.

Graduate, Boston School of Physical Education.

FRANCIS EDWARD BLACET — 150 W. Ninth St.

Instructor in Chemistry, 1922.

B.A.,Pomona College.

LEWIS EVERETT SEVERSON — 620 Harvard Ave.

Instructor in Economics, 1923.

B.A., University of Kansas; M.A., Leland Stanford, Jr., University.

FRANCIS GARRITT GILCHRIST — 346 Harvard Ave.

Instructor in Zoology, 1924.

B.A., University of California.

ROBERT LOBINGIER STREHLE — 1019 Dartmouth Ave.

Instructor in Physical Education for Men, 1923.

B.A., Pomona College.

WESLEY GLICK LEIGHTON — 146 W. Seventh St.

Instructor in Chemistry, 1924.

B.A., Pomona College.

MILDRED LUND — 130 W. Seventh St.

Instructor in Singing and Public School Music, 1924.

B.Mus., Northwestern University.

PAULINE ALDERMAN 618 Harvard Ave.
Instructor in Piano, 1924.
B.A., Reed College. Graduate Student, Institute of Musical Art, New York City.

FRANCES DILLON 156 W. Seventh St.
Instructor in Physical Education for Women, 1924.
B.A., Wooster College. Graduate Student, Wellesley College.

CHARLES ASHTON LOVE, JR., 725 Yale Ave.
College Physician, 1924.
B.A., Doane College; M.D., Leland Stanford, Jr., University.

KATHERINE ROMEL WOODS 438 W. Sixth St.
Cataloger, 1922.
B.A., Pomona College.

HATTIE C. MCCONNAUGHEY 145 E. Tenth St.
Assistant Librarian, 1924.
B.A., Hillsdale College.

ASSOCIATE FACULTY

RUTH BAKER DAY 457 W. Seventh St.
Instructor in French, 1922.
Ph.B., De Pauw University; M.A., Northwestern University.

MARCUS EUGENE JONES 1248 College Ave.
Honorary Curator of Botany, 1923.
B.A., Grinnell College; M.A., Grinnell College.

TREWHITT FAIRMAN HARRISS 702 Columbia Ave.
Assistant Freshman Class Adviser, 1924.
B.A., Pomona College.

TEACHING FELLOWS

ALICE VIRGINIA MCCULLY 236 College Ave.
Biology, 1924.
B.A., Pomona College.

KATHERINE PRESSLY ADAMS 920 Harvard Ave.
Philosophy, 1924.
B.A., Pomona College.

GRACE ALICE SHULTS 421 W. Seventh St.
Chemistry, 1294.
B.A., Pomona College.

CLASS OFFICERS

General
Mr. Nicholl

Junior
Messrs. Ewer and Hilton

Senior
Messrs. Denison and Robbins

Sophomore
Messrs. Kirk and E. Taylor

Freshman
Mr. Fitts, Miss Berry, Mr. Harriss

COMMITTEES OF THE FACULTY

Administration—Messrs. McCully, J. A. Lyman, Hilton, Denison, Burgess, R. H. Lyman.

Admission—Messrs. Fitts, Williams, Nicholl, Miss Berry.

Chapel—Messrs. Jaqua, R. H. Lyman, Brooks, Nicholl, Nixon.

Classification—Messrs. Fitts, Robbins, E. Taylor, Hilton, Miss Berry.

College Life—Mr. Nicholl, Miss Berry, Messrs. Hartley, Fitts, Brooks, Miss Evans.

Courses of Study—Messrs. Jaqua, Burgess, McCully, J. A. Lyman, Allen, Fitts.

Faculty Meetings—Miss Berry, Miss Spalding, Messrs. Scott, Churchill.

Graduate Study—Messrs. Westergaard, Norton, Frampton, Nicholl, Pitman.

Honors—Messrs. Woodford, Robbins, Nixon.

Library—Messrs. Burgess, Ewer, Miss Ewing, Messrs. R. J. Taylor, Harvey, Miss Anderson.

Physical Education—Messrs. Russell, Denison, Nixon, Love, Miss Evans, Mr. Woodford.

Publications—Messrs. Churchill, Bernard, Hilton, Thomson, Ament.

Public Events and Lectures—Messrs. Ament, Hand, Brooks, Rickaby, Kirk.

Music and Drama—Messrs. R. H. Lyman, Allen, Scott, Bissiri, Howard, Ament.

Rooms—Messrs. Jaqua, Burgess, Bernard, Nicholl, Churchill.

Student Aid and Labor—Messrs. Hand, Nicholl, Miss Berry.

CHARACTER OF THE COLLEGE

POMONA COLLEGE is located at Claremont on the Santa Fe and Pacific Electric Railways, thirty-five miles from Los Angeles. It is connected by the Pacific Electric Railway with Pomona, which is four miles distant, on the Union Pacific and Southern Pacific roads. On the rim of an orchard-covered valley, which is hemmed in on all sides by lofty mountains, and with Mt. San Antonio in the immediate background rising to the height of ten thousand feet, its situation is one of rare beauty. The genial southern climate invites to outdoor life and exercise the year round, while the deep canyons, the rushing streams and the long trails to the heart of the hills allure to the rewarding intimacies of nature. The town of Claremont, which now numbers about two thousand inhabitants, owes its existence to the College, and has the attractive features of the typical college community. The location and situation, within easy reach of the great and growing metropolis of the Southwest, and yet in the quiet retirement of valley and hill, is uniquely wholesome and stimulating in full measure to simplicity and thoughtfulness and all the best enthusiasms of which life is capable.

The College is pre-eminently a company of workers. From the very beginning it has maintained a reputation for interest in thorough scholarship rather than in large numbers. The procedures of the College are established in the purpose of appealing to students who appreciate the seriousness of the College opportunity. To this end, the standards of admission are unusually high. Not only is the number limited, but as defined elsewhere, only students who have finished their preparation with a high grade of promise are received. It is the distinct purpose to make the membership in the institution itself a scholastic honor. This inevitably involves a sacrifice of certain values which would be

temporarily pleasurable but which are not consistent with the most remunerative purposes.

It is the habit of the College to urge that scholarship should not only be high but also broad and inclusive. Pomona College is not a professional school. It insists that the best preparation for life includes not only the ample, generous and complete training of the college course, such as is here given, but also at a later period a thorough and definite professional specialization. It has farther insisted that this best and most complete training is practicable for a much larger number of young people than commonly feel that they have the resources of time and money for it. The College is eager to co-operate in the problems of such aspiring students; it has also been singularly successful in permeating its body of students with these ambitions, and the remarkable success of its graduates is due in no small degree to the fact that nearly seventy per cent of all who have graduated have taken subsequent professional training.

To the end that the College may be adequate for the broadest intellectual citizenship and service, a certain number of courses representing typically the differentiated fields of knowledge and investigation are required, and particular emphasis laid upon those topics which relate to the history of thought, the organization of society and the bases of truth and righteousness. These courses are required of all, whether staying a longer or shorter time in the institution, as being important to the main purpose for which the College exists. While these few courses are required, there is around them ample field for selection, according to the student's individual interest and purpose.

The College recognizes the fact that social training is also an essential part of education. It is believed that the co-educational character of the College greatly increases the culture of the student body in this respect. Working together on the highest levels of life, men and women are most likely to associate in mutual respect and dignity. It is practically the unanimous testi-

mony of the graduates of this College that these relations add to the genuine wholesomeness and rounded worth of the student's life. While emphasizing social values and opportunities, the College, however, recognizes them as interests which must be held subordinate to the main business of study and work. For this reason limitations which sometimes may seem narrow are laid upon the social life of the college community. Fraternities and sororities, in the ordinary acceptance of these terms, and extravagant social life, do not exist at Pomona College, and no one should seek the institution who is not willing to make surrender of some personal pleasures in the interests of the common college earnestness and simplicity.

Once more; the College is frankly Christian. It owes its origin and support to men and women of Christian ideals; it cannot, therefore, be other than loyal to these interests. Instead of maintaining a separate Christian life, the College also urgently lays upon its students the obligation of allegiance to that wider democracy of service and uplift which is represented in the Christian Church. The College is, nevertheless, emphatically broad in its hospitality to modern thought. It holds that no student should go out of the College unaware of the throbbing questions of the day or unprepared to face the winds of free discussion; therefore, it welcomes all honest expression of opinion, putting faith in the power of truth to hold its own in the arena of open debate. It thus seeks to resource the coming generation with a leadership of intellectual capacity, directed will and Christian character.

ADMISSION

General Requirements and Methods of Admission

It is the purpose of Pomona College to do a distinctly and notably high grade of work, thus preparing its graduates for special distinction in whatever later callings they may choose. To this end candidates for admission to any class must present satisfactory evidence of their fitness for college, both in character and in scholarship. Testimonials of character and a letter of honorable dismissal from the last institution attended are required.

It is further advised that applications be made as early as possible, inasmuch as the College cannot under present conditions guarantee the admission of more than one hundred and twenty-five men and one hundred women to the freshman class, the trustees having limited the total attendance to seven hundred and fifty.

The College welcomes tentative applications from prospective freshmen several years in advance and is glad to offer suggestions from time to time regarding the best preparation for admission. In this respect the good offices of the College are freely at the service of all interested inquirers. A medical examination conducted by an authorized physician, under the direction of the Department of Physical Education, is required of all students.

Admission to Freshman Standing

Applicants are admitted to freshman standing in any one of three ways, as follows:

First: Examination by the College.

Second: Certificate of the College Entrance Examination Board.

Examinations are given by the College Entrance Examination Board at certain times and places, which may be learned from the Registrar or from principals of secondary schools.

Third: Certificate from approved schools or colleges.

Students from approved schools or colleges are admitted without examination on presentation of a certificate signed by the principal or proper official and showing in detail the requisite completed courses. Certificate blanks obtained from the principal should be filled out and returned as early as possible after the completion of the high school year.

No application is considered which does not show fifteen units in accepted subjects, at least twelve of which are recommended. Special endorsement by the principal must accompany all papers showing non-commended units, such endorsement to include the specific recommendation of the candidate, both as to character and ability, for the undertaking of college work.

Those are matriculated to full standing who at the end of a semester's residence meet the requirements (*see* Matriculation); those who do not meet the requirements are not allowed to matriculate and are enrolled as in partial standing. No student in partial standing is recommended to college standing in another institution. The final acceptance of entrance units is based upon the character of the work done in class at Pomona College as well as upon the grade of the units presented.

Admission to Advanced Standing

Students who have sufficient credit from other institutions are admitted to advanced standing on credentials signed by the proper officials and giving full specifications concerning the nature of the courses taken and the time spent in each, together with their rank in each subject. They are assigned hours and credits on the basis of their credentials, but such assignment is provisional until ratified by the Classification Committee. This ratification is not given until after the required semester's residence, at which time the Committee has power to act in adjusting hours or credits, or both, to the qualifications shown.

Admission as Special Students

Mature students, ordinarily only such as are at least twenty-one years of age, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. This provision applies particularly to those equipped for advanced studies in special departments. The privilege of classification as special students is not open to those who seek admission to College in this way as a means of avoiding compliance with the entrance or collegiate requirements laid down for regular students. Special students are not candidates for a degree.

Admission of Graduate Students

Although Pomona College places its main emphasis upon undergraduate courses, it is equipped in some departments to do more advanced work, and the Committee on Admission is empowered to admit to study in these departments graduates of this and other colleges who are prepared to continue in such work.

A limited number of students, whose records show marked excellence, are accepted as candidates for the Master's degree.

On registration, graduate students indicate whether they are candidates for the Master's degree, or seeking a teacher's certificate, or are students at large.

Credits for Non-Commended Work

Students who enter with some of their work non-commended may remove their deficiency in one of three ways—by examination, by continuing the same line of study in College with high grade or by extra work in College not counted towards a degree. These three methods are more fully described as follows:

First: Students may be examined upon any of the accepted subjects presented for entrance, and upon passing with B grade receive credit toward entrance for that subject.

Students wishing to remove deficiencies by examination must do so before entering upon College work. Such examinations

must be taken during the first two days of registration week of either semester or (by special arrangement) the week preceding the College commencement. They must be arranged for in advance through the Registrar.

Second: Entrance credit will be given for non-commended work after a student has completed with high grade two or more College courses in the same or a closely allied subject, or upon conditions laid down in individual cases by the Classification Committee.

Third: Entrance credit may be gained by work in certain College courses, but such courses cannot count toward the number of hours or credits required for graduation, nor for honors. Moreover, students may not substitute for subjects specifically required for entrance other subjects taken in this way.

Students are not candidates for a degree nor are they eligible for recommendation to college standing in another institution until they have been matriculated. Students are matriculated only after they have come into full standing. All students must be matriculated before attaining to Junior standing.

Courses Required for Admission to Freshman Standing

In the following outline of courses a "unit" represents a course of study in one subject of high school grade involving five forty-five minute recitations per week or an equivalent for a school year. Laboratory periods should be at least twice the length of recitation periods.

Not less than one unit in any subject is normally accepted, though a half unit may be accepted when accompanied by units for courses in allied subjects.

Specific Requirements—9 Units

English, 3 units	Algebra, 1 unit
History, 1 unit	Geometry, 1 unit
One foreign language, 2 units	One laboratory science,[1] 1 unit

Additional Requirements—3 Units

Selected from the following:

English
History
Foreign Language
Mathematics
Laboratory Science[1]

Elective—3 Units

It is recommended that these electives be chosen from the subjects specified above, but in view of the importance of other lines of high school work credit is allowed for full units in other courses counted for high school graduation, the acceptance of which is specifically recommended by the principal of the school.

Description of Subjects

Details regarding subjects accepted for entrance may be secured from the Chairman of the Committee on Admission. In general each unit represents a year's work in the subject, as ordinarily presented in the California high schools.

Extra Entrance Credits

The granting of college credit for subjects taken in High School prior to graduation and not needed for entrance has been discontinued. Such subjects, if approved by the Classification Committee, may be accepted as fulfilling in part or in whole some of the Freshman-Sophomore subject requirements but in no case does the satisfaction of these requirements in High School reduce the amount of work required for Junior standing or for graduation. Credit, varying in amount with the individual courses, is granted for graduate work in approved High Schools.

[1]Heads of departments in which students wish to continue laboratory subjects begun in high school may, at their option, require the high school note-books to be submitted as evidence of ability to continue with more advanced work in the department.

CURRICULUM

Degree of Bachelor of Arts

The courses of study offered lead to the degree of Bachelor of Arts under the following hour and credit requirements.

Hour Requirements

One hundred and twenty-six hours of work are required for graduation. An "hour" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty-five minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in four years one must take an average of fifteen hours of academic work per semester throughout the four years.

Credit Requirements

In order to graduate a student must not only earn a certain number of hours, but also attain an average of at least C grade in those hours. To this end a certain number of credits is ascribed to each grade as a basis of determining average grade. The scale is so adjusted that the number of credits required for graduation coincides with the number of hours. Details regarding credits are published in "*The Manual of Procedure.*"

Choice of Subjects

In the selection of his work the student is given a large range. The only limitations are such as will insure to him, on the one hand, the breadth of view which may be gained by an introductory study of each of the great realms of knowledge; and, on the other, that concentration along some chosen line of work which shall develop power of thought and an actual fund of knowledge in some particular field.

To this end there are certain subject requirements as stated below. The College would emphasize also the advisability of

selecting work representing each of the following broad groups of subjects:

1. Language, Literature and Fine Arts.
2. Mathematics, Physical and Biological Sciences.
3. History, Social Sciences and Philosophy.

Subject Requirements

Orientation—6 hours, Freshman year.

English Composition[1]—6 hours, Freshman year.

Foreign Language—12 hours, Freshman and Sophomore years.

Economics, History or Political Science—6 hours, Sophomore year.

Hygiene[2]—2 hours, Freshman or Sophomore year.

Mathematics or Science—6 hours, Freshman year.

Mathematics or Science—6 hours, Sophomore year, except for those who enter with credit for three units in one of these subjects.

Physical Education—4 hours in Freshman and Sophomore years and 2 hours in Junior and Senior years for those not taking Military Training. For those taking Military Training the requirement is 1 hour per year throughout the course.

Military Training—Required of all men entering to Freshman or Sophomore standing, until they have credit for two years' work or the equivalent.

Economics, English Literature, History or Political Science—6 hours, Junior or Senior year, unless 3 recommended units of English and 3 of History were presented for entrance.

Philosophy, Psychology or Religion—9 hours, Sophomore, Junior or Senior year. 6 hours must be taken in Junior and Senior years and may be all in one department or distributed among these departments.

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[1]Required only of those deficient in the use of English.
[2]Must be taken in Freshman year by the women and in Freshman or Sophomore year by the men, unless the equivalent is offered.

In addition to these requirements, there is a general requirement of 36 hours of C and D academic work, of which at least 9 must be D work.

Departmental Major

Students who have shown special ability in one line of work may, with the consent of the head of the department, enroll for a departmental major. This major includes at least 18 C or D hours in the department chosen, together with certain courses in allied subjects, and usually a reading knowledge of French and German. Six of these 18 hours must be D hours and at least 6 must be taken in the Senior year. The student plans his work in consultation with the head of the department concerned. Certain prerequisites, differing with the subject chosen, are indicated for each major. A final examination or thesis or both may be required.

Students who desire to become candidates for a departmental major should indicate such intention to the head of the department as early as possible.

The student who completes a departmental major receives in addition to his diploma the special commendation of the department.

Courses in Music and Art

The College is equipped to offer unusual privileges in the Departments of Art and of Theoretical and Applied Music. The influence of the College is greatly enriched by the contributions made through these departments to the cultural life of the institution as a whole. In Bridges Hall the great musicians of the world are heard, all students being supplied with admission to their concerts. Great enlargement of life comes through intimate acquaintance with these arts, both in theoretical and applied forms, and the College urges all regular students to include them, at least to some degree, in their cultural courses, credit

toward the B.A. degree being granted on conditions specified under the detailed description of the courses.

Teachers' Certificates

The College meets the requirements of the State Board of Education for the State Certificate, enabling those recommended by the College to teach in the public elementary, junior high and secondary schools of the State of California.

Summer Session

The Summer Session affords opportunity to undergraduate students, especially, but also to high school teachers and others, to pursue work for credit in various departments. The Department of Zoology conducts its work at the Laguna Beach Marine Laboratory, Professor W. A. Hilton, Director. Other departments meet in the College buildings at Claremont. The session opens immediately after Commencement and continues for six weeks.

Music and Drama Course

In order to insure to the entire student body the opportunity of hearing and seeing the great artists of the day whose public appearance is usually confined to the larger cities, the College introduces each year a group of the most distinguished masters in the various departments of achievement. For the concerts and other entertainments thus afforded an annual ticket is furnished to every student.

Degree of Master of Arts

Candidates for the degree of Master of Arts consult with the Chairman of the Committee on Graduate Work as to the special requirements which will be made in their cases. In addition to the presentation of a thesis, twenty-four hours of work are re-

quired for the higher degree. The twenty-four hours are divided between a major subject and a minor subject in the same or in a closely allied department. No elementary undergraduate work may be counted. One copy of the thesis, bound in accordance with specifications in the hands of the librarian, must be placed in the College library.

School of Education

The School of Education was established at Pomona College in March, 1920, and formally recognized by the California State Board of Education on March 24th. The school is designed to train teachers and school administrators with the same thoroughness that has characterized Pomona undergraduate standards. Arrangements with the nearby schools have opened an unusual opportunity for practice teaching under the supervision of skilled teachers. The special courses in education, conducted by masters of the subjects, offer rich opportunities beyond the mere technical requirements of State certification laws.

Work in the School of Education looks to the securing of certificates in California and surrounding states as follows:

I. General Secondary or High School Certificates.

II. Junior High School Certificates.

III. Special Secondary Certificates.
Manual and Fine Arts Type.
Music Type.
Physical Education Type.

IV. General Elementary Certificates.

V. Special Elementary Certificates of the three types listed above.

At least Junior standing in Pomona College is required for enrollment in the School of Education, though the elementary

required courses for special certificates may be taken in Freshman and Sophomore years.

Graduate work, looking to High School certificates, requires the Bachelor's degree from an approved college.

Graduates of approved Normal Schools and Junior Colleges are admitted to the courses leading to all certificates.

Graduates of Junior Colleges, looking to teaching in the Elementary Schools of California, can secure their elementary certificates with their B.A., and have all work count directly toward the requirements for High School certificates without loss.

Lecture Foundations

THE JOSEPH H. JOHNSON FOUNDATION

The Joseph H. Johnson Foundation, liberally endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of furnishing to the College for a protracted stay and intimate participation in college life notable educators from other institutions. By this means such educators are annually in residence in Pomona College. The opportunity of intimate contact with distinguished instructors thus afforded to undergraduates is a unique privilege, often surpassing the privileges of the classroom of the institution from which these educators come.

THE HENRY D. PORTER FOUNDATION

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, secures to the institution annually, the extended stay of some prominent worker in the field of Christian Missions. The lecturer upon this foundation commonly shares in the regular classroom work related to the history, geography, politics or religion of the region in which he has been actively at work. This vivid representation of the missionary life is one of the most stimulating features in the spiritual program of the College.

Outline of Work by Years

An outline of the work which leads to graduation is here given by years. A more complete description of each course may be found under "*Departments of Instruction.*"

Each "hour" represents one recitation or laboratory period per week for one semester.

Freshman Year

Hygiene[1]	2 semester hours
Physical Education[2]	2 semester hours
Military Training (*for men*)	3 semester hours
Foreign Language[3]	6 semester hours
Orientation	6 semester hours
Mathematics or Science	6 semester hours
Elective	Not less than 12 nor more than 15 semester hours

Sophomore Year

Physical Education[2]	2 semester hours
Military Training (*for men*)	3 semester hours
Foreign Language	6 semester hours
Mathematics[4] or Science[4]	6 semester hours
History, Economics or Political Science	6 semester hours
Elective	Not less than 12 nor more than 15 semester hours

Junior and Senior Years

Physical Education	1 semester hour each
Economics, English, History or Political Science[5]	6 semester hours
Philosophy, Psychology or Religion	6-9 semester hours
Elective	Not less than 28 semester hours each

Should include any course requirements not already completed and enough advanced C and D courses to complete the graduation requirement of "36 hours of C and D work, of which 9 must be D."

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[1]Must be taken in Freshman year by the women, and in Freshman or Sophomore year by the men, unless the equivalent is offered.
[2]One hour required of those taking Military Training.
[3]Must continue language begun in Freshman year unless two years of some one language are accepted for entrance, in which case the requirements may be met by 6 hours of that language and 6 hours of another foreign language.
[4]Unless 3 recommended units of Mathematics or 3 of Laboratory Science were presented for entrance.
[5]Unless 3 recommended units of English and 3 of History were presented for entrance.

COURSES OF INSTRUCTION

Designation of Courses

The letter preceding the number in the designation of a course indicates in general its grade. Elementary courses, designated by A (as English A1) are given in Freshman or Sophomore year; B courses are either those which follow the A courses of earlier years or the more advanced beginning courses; C and D courses are advanced courses given to Juniors and Seniors, D courses being the more difficult. The natural sequence of courses is from A to B, B to C, and C to D, and a student may not enter a C or D course without previous work in the same line.

Courses with numbers below 100 are underclass courses; those numbered from 100 to 199 are for Juniors and Seniors; those numbered over 200 are for graduate students. Properly qualified Seniors may be enrolled in graduate courses with the consent of the instructor.

Any course may be withdrawn if the enrollment is less than five.

In departments where one-hour courses are offered, two such courses should be completed to secure the counting of hours and credits towards graduation.

When courses in different semesters have the same general number and are connected by a hyphen thus, B1a-B1b, they cover a common subject and the entire sequence should be taken. If, however, they are connected by a comma, thus, B1a, B1b, although the course extends throughout the year, independent credit is given for the work of the first semester and the first course may be followed by some allied subject instead of the next course in the sequence. Entrance to the second semester course is by permission of the instructor.

All courses are three hours each unless otherwise designated.

Roman numerals show the periods of recitations. Two courses with the same Roman numerals cannot be taken contemporaneously unless the numerals are preceded by different letters (as *M* or *W*), showing that the classes meet on different days of the group.

	7:30	9:15	10:15	11:15	1:15	2:15	3:15
MWF.....	*I*	*III*	*V*	*VII*	*IX*	*XI*	*XIII*
TThS.....	*II*	*IV*	*VI*	*VIII*	*X*	*XII*	*XIV*

Hours to be arranged—*A*.

If a letter precedes the numeral, the class meets only on that day of the group.

Art

A fee of $18 is charged for each hour of credit excepting in courses B9, C111a, C111b, D117, D219a and D219b.

A1a-A1b. Drawing. KAMINSKI

Lectures: logic in relation to drawing; methods used by artists and teachers; freehand perspective, one hour. Laboratory: sketching, out of doors and from objects arranged indoors, two hours.
Both semesters. 1 hour each. *T*, *II* and laboratory.

A2a-A2b. Design and Color. KAMINSKI

Lectures: design as applied to costume, textiles, crafts, and interiors, one hour. Laboratory: execution of problems in craft work such as batik, clay, wood and metal problems, two hours.
Both semesters. 1 hour each. *Th*, *II* and laboratory.

B9. Art Appreciation. JENKINS

A study of masterpieces as found in the various art galleries of the world. Open to Juniors and Seniors only.
First semester. 2 hours. *TTh*, *VIII*.

B11a-B11b. Drawing and Composition. KAMINSKI

Lectures: composition in great paintings; psychology of arrangement; logic in Greek and Egyptian Art, one hour. Laboratory: advanced drawing, sketch and perspective, two hours.
Both semesters. 1 hour each. *T*, *VIII* and laboratory.

B12a, B12b. Design and Color continued. KAMINSKI

Both semesters. 1 hour each. *Th*, *VIII* and laboratory.

B14a, B14b. Commercial Art. KAMINSKI

Lectures: advertising art as applied and used in modern business, one hour. Laboratory: execution of posters and cuts, two hours.
Both semesters. 1 hour each. *M, III* and laboratory.

C101a-C101b. Dynamic Symmetry. KAMINSKI

Study of the principal laws of nature in reference to design and painting. Compositions built on logical theories. Symmetry in the Greek vase. Origins of art.
Both semesters. 1 hour. *W, III* and laboratory.

C103. Design Applied to Interiors and Costumes. KAMINSKI

Fundamental decorative essentials of a room, including color harmonies and furniture design. Fundamentals in costume design and color harmonies. First semester. 2 hours. *F, III* and laboratory.

C104. Stagecraft. KAMINSKI

Psychology of color, creative use of light, ideas of construction, costumes.
One hour of lecture on color, lights and construction. Two hours working problems related to plays. Second semester. 2 hours. *F, III* and laboratory.

C105. Oils, Landscape and Still Life. JENKINS

First semester. 1 or 2 hours. *A.*

C111a, C111b. History of Art. PIJOAN

Study of the historical development of art with especial attention to national genius and expression.
Both semesters. 2 hours. *TTh, VIII.*

D113a-D113b. Drawing from Life. KAMINSKI

Sketching from model. The student is taught to catch the action of the model as well as to study it carefully. Both semesters. 1 hour each. *A.*

D117. Portrait. JENKINS

First semester. 1 or 2 hours. *A.*
Model fee, $2.00 per hour.

D219a-D219b. Teaching of Art. KAMINSKI

A general course in methods for Art teachers in public schools. Principles of design, color and drawing to be taught in the grades, demonstrated by problems. Both semesters. 1 hour each. *A.*

Classes in Graphics, Machine Drawing, Descriptive Geometry and Perspective are described under the Department of Engineering.

Astronomy

C100a-C100b. General Astronomy. BERRY

Designed for students who have had only elementary courses in physics or chemistry, and mathematics. Class-room, two hours a week; lecture and observatory amounting to one period a week. Both semesters. *I.*

C103. Essentials of Astronomy. BRACKETT

Designed for students who have a working knowledge of analytic geometry and calculus and of the more important principles in physical science. Some preparation in free-hand and mechanical drawing also is very desirable. *(Omitted in 1924-1925.)*

D104. Theoretical and Practical Astronomy. BRACKETT

Some phase of theoretical and practical astronomy, such as the determination of time, latitude, and longitude, or computation of orbits.

Prerequisite: Astronomy C100 or C103. Class-room, one hour a week; lecture and observatory amounting to two periods a week. Second semester. *IV.*

D106. Astrophysics. BRACKETT

Second semester. *A.* Laboratory fee, $5.00.

D230. Seminar in Astronomy. BRACKETT

Either semester. 1 to 4 hours. *A.* May be repeated for credit.

Biology

A1a-A1b. General Biology.

HILTON, GILCHRIST and ASSISTANTS

A general course for either those who intend to take further biological work or those who wish but one year. It may be taken for credit only by students who have had no high school Biology, Botany or Zoology. Both semesters. Class *MW, VII;* laboratory, *MTWTh* or *F, 1:15-4:10.* Laboratory fee, $6.00 each.

C106. Genetics. MUNZ

Course in modern developments in heredity and evolution and their application in plant and animal breeding. Prerequisite: One year of biological work. First semester. Laboratory fee, $5.00. *(Omitted in 1924-1925.)*

C108. Bionomics. HILTON

A course in the history of biological progress, including modern problems in evolution, heredity and eugenics. It is

open to Juniors or Seniors who have had a year of biological work. May be taken with Zoology D131 for three hours. Second semester. 2 hours. *MW,I.*

D219. Teaching of Biological Sciences. HILTON, GILCHRIST

For those who expect to teach Botany, Zoology or Biology. Discussions of teaching methods in the biological sciences together with a consideration of material and equipment needed for such work. Second semester. 2 hours. *W, XIII; Th, XIV.*

Botany

B21a-B21b. General Botany. HARVEY

A necessary introductory course for advanced work in Botany. A general treatment of structure and life-processes of plants, giving a picture of plants as living organisms. A survey of the plant kingdom giving the steps in the evolutionary series, methods of study of various types of plants, and uses. Both laboratory and field work. Prerequisite: Biology A1 or high school biology or botany or zoology. Laboratory, two exercises a week; lecture one hour a week. Both semesters. *F, I;* laboratory, *T and Th, 1:15-4:10.* Laboratory fee, $7.00 each.

C105. Bacteriology. HARVEY

General study of important bacteria, methods of culture and study, and importance in disease and agriculture. Prerequisite: One year of biological work. Two laboratory periods and one lecture a week. Second semester. Class *W, I;* laboratory, *WF, 1:15-4:10.* Laboratory fee, $8.00. Breakage deposit, $5.00. (Either this course or D129 will be offered, according to demand.)

C121. Plant Histology. MUNZ

A study of plant tissues and of methods of slide making and other technique. Prerequisite: Botany B21 or equivalent. First semester. Laboratory fee, $7.00. *(Omitted in 1924-1925.)*

C123. Plant Physiology. HARVEY

A study of nutrition and life-processes in the plant; including such topics as absorption, conduction, transpiration, photosynthesis, respiration, fermentation, etc. A foundation course for work in horticulture and agriculture. Laboratory, two periods a week; lecture, one hour a week. First semester. Class *W, I;* laboratory, *WF, 1:15-4:10.* Laboratory fee, $8.00. Breakage deposit, $5.00.

C125. Comparative Morphology. MUNZ

An advanced course in morphology and evolution of green plants. Prerequisite: Botany B21 or equivalent. First semester. Laboratory fee, $7.00. *(Omitted in 1924-1925.)*

C126. Taxonomy. MUNZ

Study of local native plants and of taxonomic methods. Prerequisite: Botany B21 or equivalent Second semester. Laboratory fee, $7.00. *(Omitted in 1924-1925.)*

C127. Ecology. MUNZ

Study of environmental influence and of plant adaptations. Prerequisite: Botany B21 or equivalent. Second semester. Laboratory fee, $7.00. *(Omitted in 1924-1925.)*

D129. Plant Pathology. HARVEY

Study of diseases of citrus and other local horticultural crops, with methods of control. Laboratory and field work, two periods a week. Second semester. Prerequisite: Botany B21 or equivalent, and permission of instructor. *A.* Laboratory fee, $7.00. (Either this course or C105 will be given, according to demand.)

D131. Investigation and Research. HARVEY

Special work, primarily for majors in the department. Either semester. 1 to 3 hours. *A.* Laboratory fee, $2.00 for each hour of credit. Permission of instructor required for registration.

D132. Investigation and Research. HARVEY

A continuation of Botany D131. Either semester. 1 to 3 hours. *A.* Laboratory fee, $2.00 for each hour of credit.

D231. Investigation and Research. HARVEY

Open only to graduates. Either semester. 2 to 6 hours. *A.* May be repeated for credit. Laboratory fee, $2.00 for each hour of credit.

CHEMISTRY

A breakage deposit of $10.00 is required of each student in each laboratory course. At the conclusion of the work the deposit, less breakage, is returned.

GENERAL AND PHYSICAL CHEMISTRY

A1a-A1b. Elementary Chemistry. BLACET

An introductory course, for those who have had no previous training. Both semesters. Class, *TTh, II;* laboratory, *T or Th, 1:15-4:10.* Laboratory fee, $6.00 each.

B3a, B3b. Systematic Inorganic Chemistry.

LYMAN and BLACET

Prerequisite: High school chemistry. Class work descriptive and theoretical. Laboratory work, first semester, mostly the

preparation of inorganic substances; second semester, qualitative analysis. Both semesters. 5 hours each. Class and quiz meetings, three times a week, *III;* laboratory, two periods a week, *TTh or WF, 1:15-4:10.* Laboratory fee, $10.00 each.

B5a-B5b. Theoretical Chemistry and Qualitative Analysis.

LYMAN and BLACET

Prerequisite: Chemistry A1a-A1b. May be accompanied by Chemistry B7 or B9. Both semesters. 2 hours each. Class, *W, I;* laboratory, *Th or F, 1:15-4:10.* Laboratory fee, $6.00 each.

D119a, D119b. Physical Chemistry. LEIGHTON

Prerequisite: Calculus, College physics, Chemistry C110, and either Chemistry C108 or C111. A reading knowledge of French and German is desirable. Two class meetings and one laboratory period a week. Both semesters. Class, *TTh, VIII;* laboratory, *A.* Laboratory fee, $8.00 each.

D121a, D121b. Chemistry Conference. ———

A study of current chemical literature. *(Omitted in 1924-1925.)*

D217a, D217b. Research in Physical Chemistry.

LYMAN and BLACET

Prerequisite. Chemistry D119. Both semesters. 2 to 6 hours each. *A.* Laboratory fee, $6.00 to $15.00 each.

D219. The Teaching of Chemistry. TURNER

Second semester, 2 hours. *A.*

CHEMICAL TECHNOLOGY

D211a-D211b. Petroleum Technology . TURNER

Prerequisites: Chemistry C110 and either C108 or C111. Class *M, VII.* 3 hours' credit. Laboratory, two periods a week. *A.* Fee, $10.00.

D213a-D213b. Research in Petroleum Chemistry. TURNER

Prerequisites: Chemistry C110 and either C108 or C111. 2 to 6 hours' credit. *A.* Fee, $6.00 to $15.00.

QUANTITATIVE ANALYSIS

B7. Systematic Quantitative Analysis. LEIGHTON

Chemistry B3b should precede, or Chemistry B5a should accompany, this course. The work is both gravimetric and volumetric. One class and two laboratory periods a week. First semester. Class *MI;* laboratory, *A.* Laboratory fee, $10.00.

C108. Advanced Gravimetric Analysis. LEIGHTON

Prerequisite: Chemistry B7. One class and three laboratory periods a week. First semester, 4 hours' credit. Class and laboratory. *A.* Laboratory fee, $10.00.

C109. Food Analysis. ———

Prerequisite: Chemistry B7. Laboratory fee, $10.00. *(Omitted in 1924-1925.)*

C111. Advanced Volumetric Analysis and Electro-analysis.

LEIGHTON

Prerequisite: Chemistry B7. One class and three laboratory periods a week. Second semester. 4 hours. Class, *M, I;* laboratory, *A.* Laboratory fee, $10.00.

D113a, D113b. Advanced Quantitative Analysis.

BLACET and LEIGHTON

Prerequisite: Chemistry C108 and C111. Three laboratory periods a week, from which time for conferences is taken. Both semesters. Laboratory, *A.* Laboratory fee, $12.00 each. *(Withdrawn 1924-1925.)*

ORGANIC CHEMISTRY

B9. Systematic Chemistry of the Open-chain Compounds.

LYMAN

Chemistry B3b should precede, or Chemistry B5a should accompany, this course. Three class and either one or two laboratory periods a week. First semester. 4 or 5 hours. Class, *VII;* laboratory *A.* Laboratory fee, $6.00 for the first hour; $4.00 for the second hour.

C110. Systematic Chemistry of the Cyclic Compounds.

LYMAN

Prerequisite: Chemistry B9. Second semester. 4 or 5 hours. Other details as under Chemistry B9. Laboratory fee, $6.00 for the first hour; $4.00 for the second hour.

C113. Food Chemistry. LYMAN

Prerequisite: Chemistry C110. Two class meetings a week. First semester. 2 hours. Class, *MF, I.*

D114. Advanced Organic Preparations. LYMAN

Prerequisite: Chemistry C110. Frequent conferences, and two laboratory periods a week. First semester. 2 hours. *A.* Laboratory fee, $10.00.

D115. Biochemistry. LYMAN

Prerequisite: Chemistry C110. Chemistry C113 is recommended. Second semester. Class, two periods a week, *MF*, *I;* laboratory, one period a week, *A*. By arrangement, the class work may be taken without the laboratory work, for two hours' credit. Laboratory fee, $6.00.

D215a, D215b. Research in Organic Chemistry. LYMAN

Prerequisite: Chemistry D114. Conferences and laboratory work. Both semesters. 2 to 6 hours each. *A*. Laboratory fee, $6.00 to $15.00 each.

Economics and Sociology

B1a-B1b. Elements of Economics. SEVERSON

A study of value, exchange, money, banking, international trade, distribution, taxation and current economic problems. This course or Economics B103 required before taking other courses in Economics. Both semesters. Two sections. *I*, *III*.

B31a-B31b. Accounting. THOMSON

Both semesters. *VII*.

B103. Principles of Economics. BURGESS

A rapid introductory course, open only to Juniors and Seniors who have not taken Economics B1. First semester. *IV*.

C105. Money and Banking. BURGESS

History and principles of Money and Banking with particular attention to recent developments in the field of banking. First semester. *V*.

C106. Public Finance. BURGESS

Taxation, public debts, budgets and other problems connected with the financing of governments. Second semester. *IV*.

C108. Problems of Labor. KIRK

A study of labor organizations; labor legislation; scientific management; methods of promoting industrial peace. Second semester. *V*.

C109. Business Organizations. SEVERSON

A comparative study of various business organizations: individual proprietor, partnership, co-operative organization, corporation, holding company, trust. First semester. *VI*.

C110. Corporation Finance. SEVERSON

Prerequisite: Economics C109. Financing of corporations, including promotion, reorganization and consolidation, with some

study of financial policy of co-operative organizations. Second semester. *VI.*

D111. Investments. SEVERSON

Must be preceded or accompanied by Economics C110. A study of the fields of speculation and investment; problems of investment and analysis. Second semester. *VIII.*

D113. Transportation Problems. BURGESS

First semester. *(Omitted in 1924-1925.)*

D114. Elements of Marketing. BURGESS

An analysis of the institutions and methods employed in the distribution of agricultural products and manufactured articles. Second semester. *II.*

D115. International Commercial Policies. BURGESS

An analysis of the policies of nations as they affect international trade, with special reference to the control of raw materials, and trade routes and the promotion of commerce. First semester. *II.*

D119a-D119b. Economics Seminar. BURGESS

Reports on and discussions of new books in the field of economics; reports on the current magazines and occasional investigation of special problems. Both semesters. 1 hour each. *F, XI.*

D202. Economic Theory. BURGESS

Second semester. 2 hours. *(Omitted in 1924-1925.)*

D204. History of Economic Thought. BURGESS, THOMSON

A survey of the leading schools of economic thought. Second semester. *V.*

B21a-B21b. Elements of Sociology. KIRK

The social population; social forces; social processes; social products; sociological principles. Both semesters. *VI.*

C125. The Control of Poverty. KIRK

A study of poverty and dependency — their relief and prevention. First semester. *V.*

C129. Statistics. SEVERSON

Theory and method, including the simple averages — mean, median and mode; deviation and correlation. Text book and problems. Open to upper division students in the physical and biological sciences. First semester. *VIII.*

D112. Social Psychology. EWER

(See Psychology D112.)

D127. Criminology. KIRK

The nature and evolution of crime; criminal traits and types; the origin and evolution of punishment; crime and social progress. First semester. *III.*

D228. Advanced Studies in Social Economics. KIRK

A seminar designed to meet the needs of students who are specializing in the field of Sociology. Probable topic for 1925 — Modern Theories of Social Reform. Second semester. *III.*

Education

B1. Elements of Psychology. EWER

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct, and will. The relation of mental processes to the nervous system and to action. Either semester. First semester, *III;* second semester, *V.*

B3a-B3b. Orientation Course in Education. JAQUA

The purpose of this course is to introduce the student to the most important problems in American Education and to acquaint him with certain approaches to the solution of these problems. Both semesters. 2 hours. *(Omitted in 1924-1925.)*

B103. Elementary Education. FITTS

A course in the principles of elementary education, including the purpose, objectives and aims of the elementary school, its organization and curriculum. First semester. 2 hours. *WF, I.*

C107. Educational Psychology. EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. First semester. *VII.*

C113. The Junior High School. FITTS

A course in the principles of junior high school education, including the purposes, objectives and aims of the junior high school, its organization and curriculum. Second semester. 2 hours. *WF, I.*

C115. Secondary Education. NICHOLL

The principles of secondary education, including the field of junior high school, senior high school and junior college, presenting particularly the purposes, objectives and attainable goals of public secondary schools. First semester. 2 hours. *TTh, IV.*

C116. Public School Administration. NICHOLL

A course in the principles and problems of public school administration and classroom management. Second semester. 2 hours. *TTh, IV.*

C118. Education for Citizenship. THOMSON

A course presented in such a way as to lead the teacher to appreciate the social purpose of high school subjects and to make instruction in all classes contribute to the training of youth for good citizenship. Either semester. 2 hours. First semester, *ThS, VIII.* Second semester, *ThS, II.*

C125. Normal Growth. GREENE

A study of the development of the child mentally, physically and morally. 2 hours. First semester. *TTh, IV.*

C126. School Hygiene and Supervision ———

2 hours. Second semester. *A. (Omitted in 1924-1925.)*

C130. California School Law. NICHOLL

A course in public education in California including the organization and administration of the California school system. 2 hours. First semester, *TTh, II;* second semester, *MF, III.*

D104a, D104b. History and Principles of Education. JAQUA

The development of educational theory and practice from the Greek period to the present. The second semester is devoted to a discussion of modern problems and principles growing out of historical changes. Both semesters. 2 hours. *TTh, VIII.*

D117. The Measurement of Intelligence. WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford Revision of the Binet Tests. Second semester. *VII.*

D210. Practice Teaching. NICHOLL and THOMSON

A course in actual practice teaching, supervised, including regular conferences with the supervisor. Both semesters. 4 hours. *A.*

See also courses D219 as listed in other departments, which are teachers' courses, and Psychology B3.

Engineering

A1a, A1b. Graphics. TAYLOR

An elementary course in instrumental, or engineering, drawing for those fitting themselves to be high school teachers

of Art or Mathematics. Both semesters. 2 hours each. *TTh, 1:15-4:10.*

A2a, A2b. Engineering Drawing. TAYLOR

A beginning course for engineering students. Includes lettering, use of instruments, orthographic projections, intersection of solids, development of surfaces, and the making and interpreting of working drawings. Both semesters. 2 hours each. *TTh, 1:15-4:10.*

B3a-B3b. Graphics. BELCHER

An advanced course for engineering students, treating of orthographic and isometric projections, shades and shadows. office computations. Both semesters. 2 hours each. *TTh, 1:15-4:10.*

B11a-B11b. Surveying. BELCHER

Use and care of surveying instruments. Field exercises and office computations. Both semesters. *(Withdrawn 1924-1925.)*

C115. Descriptive Geometry. BELCHER

A study of the science of representing, by drawing, the location of points, lines, planes, intersections of surfaces, etc. Prerequisite: Engineering A2 or its equivalent. First semester. *A.*

C116. Perspective. BELCHER

Principles of perspective with practice in perspective drawings. Prerequisite: Engineering C115. Second semester. *A.*

C112a, C112b. Engineering Design. TAYLOR

A laboratory course in design of cams, gears, machine parts and simple trusses. Both semesters, two 3-hour periods a week. 2 hours' credit a semester. *TTh, 1:15-4:10.*

D113a, D113b. Analytic Mechanics. TAYLOR

A study of force and motion with special reference to engineering problems and structures. Prerequisite: A knowledge of Calculus. Both semesters. *VII.*

D117. Hydraulics. TAYLOR

Flow of water, oils and other fluids in pipes, ditches and streams. Measurement of flow by orifices, weirs, etc. Design of dams, flumes and pipe lines. Two recitations and one laboratory period a week.
Must be accompanied or preceded by Engineering D113. First semester *(Omitted in 1924-1925.)*

D118. Hydraulic Machinery. TAYLOR

A study of the energy of flowing water and its conversion into power. Second semester. *(Omitted in 1924-1925.)*

D119. Strength of Materials. TAYLOR

Elasticity and strength of materials of construction, theory of stresses and strain, elastic limit, safe loads, repeated stresses, etc. Must be preceded or accompanied by Engineering D113. First semester. *III.*

D120. Mechanics of Elastic Bodies. TAYLOR

A more advanced study of the stresses and strains in the materials of construction. Prerequisite: Engineering D119. Second semester. *III.*

English Composition and Language

COMPOSITION

A21. Composition. THOMSON

An elementary course for those who are deficient in English. May be required of students of any class. Second semester. *VI.*

A22a-A22b. Freshman Composition.

FRAMPTON, RICKABY, LINCOLN

Elective for freshmen. Four sections. General course first semester; two sections study creative writing and two argumentation the second semester. Both semesters. *II and VI.*

A24. Business English. FRAMPTON

Special attention to commercial correspondence. First semester. *VI.*

B23. Sophomore Composition. FRAMPTON

Elementary study of Literary Criticism, the Essay and the Short-Story. Students should take this course as a preparation for the specialized courses in the Department. First semester. *V.*

C125. Essay Writing. RICKABY

Practice in supervised writing of essays of various types. Especial attention to the Informal Essay. Second semester. *V.*

C128. Short-Story Writing. FRAMPTON

Practice in supervised writing of Short-Stories. Study of American short-stories. Second semester. *V.*

D127. Literary Criticism. FRAMPTON

Study of the bases of literary criticism and of outstanding critics, particularly of the last century and a half. First semester. *T, X and XII, and F, IX.*

D129. Writing of Plays. RICKABY

Especial attention given to the development of local California material. First semester. *V.*

D230. Composition Seminar. FRAMPTON

Supervised practice in all forms of creative writing. Study of matters and fields of literary interest. Second semester. *T, X and XII, and F, IX*

LANGUAGE

C141. Anglo-Saxon. FRAMPTON

Required of students whose major is English Language. First semester. *III.*

C144. Chaucer. FRAMPTON

A literary and linguistic study of Chaucer. Theses. Required of those whose major is English Language. Second semester. *VIII.*

D142. Beowulf. FRAMPTON

Required of those whose major is English Language. Prerequisite: English C141. Second semester. *III.*

D219. The Teaching of English. FITTS

Required of those seeking teacher's certification in English. Second semester. *A.*

English Literature

A1a-A1b. Introduction to Literature. McCULLY

A course in the fundamental principles of literary criticism and interpretation together with reading and study of specimens of the more important literary types.
In case of Freshmen and Sophomores this course is prerequisite for all B courses in Literature. Both semesters. *V.*

B3. Development of English Literature. SPALDING

A historical survey of English literature from its beginnings to the age of Shakespeare.
Prerequisite: English A1 in case of Freshmen and Sophomores. First semester. *VII.*

B4. Shakespeare. LINCOLN

A general course, including some consideration of Shakespeare's life and the conditions under which he lived and wrote, the chief stress falling, however, on a study of the

greater plays with a view to enabling the student to read Shakespeare with sympathetic appreciation.
Prerequisite: English A1 in case of Freshmen and Sophomores. Second semester. *VII.*

B5a, B5b. Nineteenth Century Literature. LINCOLN

Wide reading in the literature of the period with lectures on its significance as an expression and interpretation of general English life.
Prerequisite: English A1 in case of Freshmen and Sophomores. Both semesters. *III.*

B7. Medieval Literature. FRAMPTON

An introduction to medieval literature and art with emphasis on those phases that have contributed most richly to modern life and literature. Prerequisite: English A1 in case of Freshmen and Sophomores. First semester. *VIII. (Withdrawn 1924-1925.)*

B13a, B13b. Greek Literature and Life. NORTON

An introduction to Greek life with a study of the outstanding masterpieces of Greek literature and art.
Prerequisite: English A1 in case of Freshmen and Sophomores. Both semesters. *VI.*

C101. Contemporary Poetry. LINCOLN

A course in the chief English and American poetry of the last twenty-five years with particular attention to the newer movements in this field as they have affected either form or content.
Prerequisite: Six hours of collegiate literature. First semester. *VII.*

C103a, C103b. Literature of the Eighteenth Century. McCULLY

The neo-classical literature of Dryden, Pope and their contemporaries; the periodical essayists; sentimentalism, realism and romanticism; eighteenth century drama; the beginnings of the English novel; the spread of the romantic movement in England and on the Continent. Permission of the instructor must be secured before registration for this course. Both semesters. *II.*

C107a, C107b. American Literature. LINCOLN

The literature of the United States, with particular attention to the expression of our national characteristics and sentiments. Both semesters. *IV.*

C109. Browning. SPALDING

A survey of Browning's work as a whole with a view to an

understanding of his philosophy and an appreciation of his art. First semester. *(Omitted in 1924-1925.)*

C110. Milton and His Period. SPALDING

The literature of Puritan and Cavalier, the work of Milton being studied at length in the light of the life and culture of the poet. Second semester. *(Omitted in 1924-1925.)*

D111. Elizabethan Literature: Non-dramatic. McCULLY

The literature of the age of Elizabeth, exclusive of the drama. The English Renaissance, the influence of France, Italy and Spain, the Tudor translations, the making of the English Bible, and the work of such men as Sidney, Spenser, Shakespeare and Bacon are main topics of the course. First semester. *VI.*

D112. History of English Drama to 1642. FRAMPTON

Lectures and readings tracing the historical development of English drama from its beginning to its flowering in the work of Shakespeare and his contemporaries; thence through its decline to the closing of the theatres. Second semester. *(Omitted in 1924-1925.)*

D113. Shakespeare: The English History Plays. SPALDING

A study of Shakespeare's growth in dramatic power and skill throughout his formative period, the chronicle history plays receiving chief attention. First semester. *(Omitted in 1924-1925.)*

D114. Shakespeare: Selected Plays. SPALDING

A study in some detail of five of the more notable plays. Second semester. *VII.*

D115a, D115b. The Novel. McCULLY

Lectures on the history of English prose fiction, with a study of selected nineteenth century novels, followed by a survey of the more recent work in prose fiction, American, English, and continental European. Both semesters. *I.*

D117. Wordsworth and Shelley. McCULLY

The work of the two poets is studied in some detail in relation to their lives and times. First semester. *(Omitted in 1924-1925.)*

D118. The Great Victorians. McCULLY

The "major prophets," Carlyle, Ruskin and Arnold, receive chief emphasis. The work of other eminent Victorians is investigated and discussed in relation to these central figures and to the general social life of the period.
Prerequisite: English C103 or an equivalent. Second semester. *VI.*

D215a, D215b. Seminar in Literature. SPALDING

A correlated review of the development of English literature. With the permission of the instructor a student may register for the second semester of the course without having taken the first. Both semesters. *V.*

FRENCH

A1a-A1b. Elementary. JONES and R. F. BISSIRI

Stress laid on accurate pronunciation, essentials of grammar, translation of French prose; dictation, conversation and easy composition. Three sections. Both semesters. *I, II, III.*

B3a-B3b. French Novel of the Nineteenth Century.

R. F. BISSIRI and DAY

A survey of the literature of the nineteenth and twentieth centuries. Selections from representative authors: Chateaubriand, Hugo, Balzac, Loti, Sand, Clemenceau, Anatole France, Coppee. Composition, summaries and reports in French. Both semesters. *II, II, V, VI.*

B4a-B4b. Grammatical Analysis. R. F. BISSIRI

An intensive study of grammar with emphasis on idiomatic French, original compositions, conversation, reading of contemporary French. Class conducted largely in French. Prerequisite: French A1 or equivalent. Both semesters. 2 hours each. *TTh, VIII.*

C105. Classic Drama. JONES and R. F. BISSIRI

A study of typical plays by Corneille, Racine and Moliere, with collateral reports in French. Lectures in French. Prerequisite: French B3 or equivalent. Two sections. First semester. *V.*

C106. Seventeenth Century Prose. JONES and R. F. BISSIRI

Study of Boileau, La Fontaine, La Bruyere, Descartes, Pascal, Bossuet, Fenelon, Mmes. de Sevigne, La Fayette and Maintenon; lectures and collateral study in French upon the age of Louis XIV. This and all following courses are conducted in French. Second semester. *V.*

C107a-C107b. French Conversation. R. F. BISSIRI

Practical course in French conversation based on modern colloquial usages. Prerequisite: French B3 and B4 or equivalent. Both semesters. Two sections. 1 hour each. *T, X; W, VII.*

D109. Literature of the Eighteenth Century. JONES

A critical study of the French philosophers of the eighteenth

century, with especial attention to Montesquieu, Voltaire and J. J. Rousseau. Collateral readings and reports by members of the class. Prerequisite: French C105 and C106. First semester. *IV.*

D110. Romantic School. JONES

An intensive study of the French poets of the early nineteenth century. Readings from Hugo, Lamartine, A. de Musset, and others. Collateral readings and lectures upon the period. Prerequisite: French C105 and C106. Second semester. *IV.*

D111. Literature of the Renaissance. JONES

Poets and prose writers of the fifteenth and sixteenth centuries. Lectures upon the beginnings of French literature and nationality. Prerequisite: French C105 and C106. First semester. *(Omitted in 1924-1925.)*

D112. Ronsard to Malherbe. JONES

A study of the Pleiade. Essays of Montaigne. Lectures upon the literary history of the period. Prerequisite: French C105 and C106. Second semester. *(Omitted in 1924-1925.)*

D219. The Teaching of French. JONES

Discussion of textbooks and methods. Technical: French phonetics. First semester. 2 hours. *A. (Withdrawn 1924-1925.)*

Geology

B1. Physical Geology, dynamic and structural. WOODFORD

Prerequisite: High school chemistry or equivalent. Class, two hours a week; laboratory or field work, one period a week. First semester. Class, *WF, 1;* laboratory, *W or Th, 1:15-4:10.* Laboratory fee, $3.00.

B2. Historical Geology. WOODFORD

Prerequisite: Geology B1. Second semester. Class, *WF, 1;* laboratory or field work, *W or Th, 1:15-4:10.* Laboratory fee, $3.00.

B3. Determinative Mineralogy. WOODFORD

Prerequisite: High school chemistry or equivalent. Either semester. Two laboratory periods. 2 hours. *A.* Laboratory fee, $4.00.

C105. Crystallography. WOODFORD

Must be preceded or accompanied by Geology B3. First semester. 2 hours. *WF, V.*

C106. General Mineralogy. WOODFORD

Physical-chemical relations and paragenesis of minerals; blowpipe analysis. Prerequisite: Geology B3 and C105. Second semester. Class, *WF, V;* laboratory, *T, 1:15-4:10.* Laboratory fee, $4.00.

C107a, C107b. Invertebrate Palaeontology. WOODFORD

Prerequisite: Geology B2. Both semesters. One class and two laboratory periods. *A.* Laboratory fee, $6.00 each. Given alternate years.

C110. Petrology. WOODFORD

The study of rocks without the microscope. Prerequisite: Geology B1, B3 and C105. Second semester. One class and two laboratory periods. *A.* Laboratory fee, $4.00.

D104. Field Geology. WOODFORD and TAYLOR

Prerequisite: Geology B2, C110. A summer course of six weeks. 6 hours. *A.*

D111. Optical Mineralogy. WOODFORD

Prerequisite: Geology C105. First semester. Two class and one laboratory periods. *A.* Laboratory fee, $5.00. Given alternate years. *(Omitted in 1924-1925.)*

D112. Petrography. WOODFORD

Prerequisite: Geology D111. Second semester. One class and two laboratory periods. *A.* Laboratory fee, $8.00. Given alternate years. *(Omitted in 1924-1925.)*

GERMAN

A1a-A1b. Elementary. BISSELL

Constant ear-training, with such practice in speaking as time allows. Translation into German. Dictation. Both semesters. Two sections. *II, V.*

B3a-B3b. Prose Narrative and Drama. BISSELL

Review of grammar, conversation with writing in German. Dictation. Prerequisite: German A1, or equivalent. Both semesters. *VI, VIII.*

B4a-B4b. Composition. BISSELL

Conversation, translation into German and also free composition. May be required of those deficient in German. Both semesters. 1 hour each. *A.*

B6a-B6b. Composition. BISSELL

Advanced narrative prose. For students of good standing.

Prerequisite: German B4 or equivalent. Both semesters. 1 hour each. *A.*

C109a, C109b. German Novel of the Nineteenth Century.

BISSELL

Conversation and writing in German continued; reading at sight. Lectures on German Novel. Prerequisite: German B3 or equivalent. Both semesters. *I. (Withdrawn 1924-1925.)*

C110a-C110b. German Composition and Conversation.

BISSELL

Stress is laid on free composition. Prerequisite: German B3 or equivalent, and German B6. Both semesters. 1 hour each. *A. (Withdrawn 1924-1925.)*

C111. Scientific German. BISSELL

Stress is laid on preparing accurate outlines of passages read. Intended primarily for those planning to do graduate work in which reading of German is required. Second semester. *VIII.*

D112. Composition. Advanced Course. BISSELL

Free composition, interpretation, short essay writing. Required of all who desire the recommendation of the Department as teachers. Prerequisite: German C110. First semester. 1 hour. *A.*

D113. Lessing. BISSELL

Reading of Minna von Barnhelm and one other play or prose work. Lectures on Lessing's works and influence. First semester. *IV. (Withdrawn 1924-1925.)*

D114. Goethe. BISSELL

Reading of Faust and one other work. Lectures on Goethe's life and influence. Special study of the Faust Legend and literary questions on it. Second semester. *IV.*

Greek

B1a-B1b. Elementary. NORTON

First lessons in Greek; relation to modern Greek and to English scientific vocabulary; selected short passages from Greek literature; Book I of Homer's Iliad. Both semesters. *M, XIII, WF, IX.*

B3. Herodotus and Plato. NORTON

Selections from the history of Herodotus; brief treatment of Greek history and dialects; Plato, Apology and Crito; life of Socrates and his contribution to philosophy. First semester. *(Omitted in 1924-1925.)*

B4. Greek Epic Poetry and Tragedy. NORTON

Selections from Homer's Odyssey; history of the epic; Sophocles, Antigone or Euripides, Alcestis; the Greek theater and stage antiquities. Second Semester. *(Omitted in 1924-1925.)*

B13a, B13b. Greek Life and Literature. NORTON

Open to students who have no knowledge of the Greek language, and designed to give an appreciation of the masterpieces of Greek literature through translations. Both semesters. *VI.*

C106. Sophocles and Aeschylus. NORTON

Sophocles, Oedipus the King; Aeschylus, Prometheus; technique of the Greek drama; treatment of the versification of tragedy. Second semester. *IV.*

C107. Hellenistic Greek. NORTON

Selected passages from the New Testament; practice in interpretation and in textual criticism; treatment of Hellenistic morphology and syntax. First semester. *II.*

C117. History of Greece. ROBBINS

Lectures, assigned readings and quizzes on the history, civilization and achievement of the Greeks from prehistoric times to the Roman Conquest. First semester. *V.*

History

A1a-A1b. General European. WESTERGAARD

An outline course, beginning with primitive man, and extending down to the present time. Continuity is emphasized, while students are also expected to do fairly intensive study on particular periods, persons, or episodes. Prerequisite for advanced history courses. Weekly quiz sections. Both semesters. *I.*

B2a, B2b. Medieval European History. WESTERGAARD

(Omitted in 1924-1925)

B7a-B7b. English History. PITMAN

An introductory course, emphasizing political, social, and cultural aspects, and paying due regard to England's part in general European history. First semester to about 1783; second semester, establishing of the British Empire. Essentially a study in the cultural heritage of America. Both semesters. *VIII.*

C107a-C107b. American History. PITMAN

General survey of United States History, from the Discovery

to the close of the Civil War. First semester, to the establishment of the United States under the Constitution; second semester, the development of nationality. Both semesters. *III.*

C113a, C113b. Modern European History. WESTERGAARD

First semester, rise of Modern Europe, from 17th century to close of Napoleonic wars. Emphasis on political narrative, but including study of economic, religious and social factors. Second semester, the 19th century, and to the World War. Considerable emphasis on present day phenomena and their historical antecedents. Both semesters. *VII.*

C117, C118. History of the Greeks and Romans. ROBBINS

(See Departments of Greek and Latin for descriptions.) Both semesters. *V.*

D119a-D119b. International Relations. WESTERGAARD

First semester, the United States and Latin America from the revolt of Spain's colonies in America to the present time, with special emphasis on Mexico and the Caribbean lands, European intervention, and commercial penetration. Second semester, problems of international organization and co-operation, the League of Nations. Prerequisite: Two years of college history. Both semesters. *IV.*

D127a-D127b. Advanced American History. PITMAN

An intensive study of selected phases of the life of the American people. Prerequisite: Two years of college history. Both semesters. *V. (Withdrawn 1924-1925.)*

D131a-D131b. Hispanic-American History. PIJOAN

Special fields selected for study and investigation, such as the period of the great discoveries, the Spanish settlement of California, Spanish institutions in America. Both semesters. 2 hours. *TTh, VI.*

D219. Teaching of History. WESTERGAARD

Primarily for those planning to teach history in secondary schools. Second semester. 2 hours. *A.*

D230. Seminar in History. WESTERGAARD

Investigation in limited fields of recent European history. France and Germany since 1890, Alsace-Lorraine, the Versailles settlement. This or equivalent required of those seeking a departmental major in History. First semester. 2 to 4 hours. *A.*

For classes in American Government, American Colonial Government, American Diplomacy and Constitutional History, see the Department of Political Science and Law:

Italian

B131a-B131b. Elementary. JONES

Essentials of grammar. Special emphasis upon pronunciation. Composition and dictation. Both semesters. *XI.*

C133. I Poeti dei secoli XVIII e XIX. A. T. BISSIRI

A study of the foremost Italian poets and dramatists of the last two centuries. This course, and all to follow, conducted in Italian. First semester. *A.*

C135. Boccaccio and Petrarch. A. T. BISSIRI

Selections from the Decamerone and other works of Boccaccio. Study of the Canzoniere of Petrarch. First semester. *(Omitted in 1924-1925.)*

D134. Il Cinquecento. A. T. BISSIRI

A study of the Italian epics of the sixteenth century. Readings from Boiardo, Ariosto, Tasso and others. Collateral readings and reports in Italian. Prerequisite: C133 or C135. Second semester. *A.*

D136. Dante. A. T. BISSIRI

Intensive study of the Inferno, with selections from the Purgatorio and Paradiso. Collateral readings with reports in Italian. Prerequisite: C133 or C135. Second semester. *(Omitted in 1924-1925.)*

Latin

A1a-A1b. Elementary. McCONNAUGHEY

First lessons in Latin with oral and written work; translation of stories from mythology and of easy Latin plays; Book II and selections from several other books of Caesar's Gallic War. Both semesters. *I.*

A2a-A2b. Cicero, Ovid and Vergil. ROBBINS

Cicero, Orations I and IV against Catiline and the Oration for Archias; selected passages from Ovid's Metamorphoses and Vergil's Aeneid. Both semesters. *VII.*

B3. Cicero and Pliny. ROBBINS

Cicero, De Senectute; Pliny, Selected Letters; study of the life and times of the late Roman republic and early empire. First semester. *VI.*

B4a-B4b. Composition. ROBBINS

Review of Latin grammar and writing of Latin sentences to fit the needs of the class. Required of students making Latin their major. Both semesters. One hour each. *A.*

B5. Horace. ROBBINS

Horace, Odes and Epodes; philosophy, history and mythology as reflected in the poems of Horace; study of the metrics of Horace and the influence of the Greek lyric poets. Second semester. *VI.*

C106, C107. Roman Comedy and Elegy. ROBBINS

Plautus, Captivi and Trinummus; Terence, Adelphi and Phormio; origin and development of the Roman drama; study of the ancient theater and stage antiquities. Selected poems of Catullus, Tibullus, Propertius and Ovid; influence of the Alexandrian literature upon the Romans; development of the elegy. *I.*

C108a-C108b. Composition. Connected Narrative. ROBBINS

Translation of connected discourse into Latin; lectures on Latin word-formation. Required of students making Latin their major. Prerequisite: Latin B4. Both semesters. 1 hour each. *(Withdrawn 1924-1925.)*

C118. History of Rome. ROBBINS

Lectures, assigned readings and quizzes on the history, organization and achievement of the Romans from the foundation of the eternal city to the reign of Justinian. Second semester. *V.*

D109, D110. Roman Philosophy and Satire. ROBBINS

Both semesters. *(Omitted in 1924-1925.)*

D114a-D114b. Advanced Composition. Original Papers. ROBBINS

Both semesters. *(Omitted in 1924-1925.)*

D219. The Teaching of Latin. ROBBINS

First semester. *(Omitted in 1924-1925.)*

D220. Latin Seminar. ROBBINS

Second semester. *(Omitted in 1924-1925.)*

Law

(*See* Political Science and Law.)

Mathematics

The courses in Mathematics designated A2, A4, A5 and B3 are intended primarily for Freshmen. Students who enter with credit for three and a half or four units of commended work in Mathematics, including solid geometry and trig-

onometry, may take Mathematics B13. Mathematics A5 is intended primarily for those who do not expect to take further work in the subject. Others should take Mathematics A4 and A2, or B3, according to their preparation and need.

A2. Plane Trigonometry. TAYLOR and RUSSELL

Elements of plane trigonometry with practical problems. Either semester. First semester, *V;* Second semester, *III.*

A4. Algebra. RUSSELL

A semester course in second year algebra, designed for those who have studied algebra only one year. First semester. *III.*

A5a-A5b. Elementary Analysis. BERRY

A theoretical and historical study of some of the more interesting principles of mathematical analysis. Both semesters. *III.*

A8. Mathematical Introduction to Engineering. TAYLOR

Prerequisite: Plane trigonometery. First semester. *II.*

B3a, B3b. Algebra. RUSSELL

Fundamental operations and quadratic equations; complex numbers; ratio, proportion and variation; binomial theorem; elementary functions; series; logarithms; theory of equations. Prerequisite: Two years of high school algebra. Both semesters. *V.*

B13a, B13b. Analytical Geometry and Calculus. RUSSELL

An elementary course in the principles of co-ordinate geometry and introduction to differential calculus. Designed to follow Mathematics A2, A5 or B3. Both semesters. *VI.*

B17. Elements of Analytic Geometry and Calculus. TAYLOR

Primarily for students of Engineering. To follow Mathematics A8. Second semester. *II.*

C108a-C108b. Analytic Geometry and Calculus. TAYLOR

A continuation of the analytic geometry and calculus of Mathematics B17. Both semesters. *VI.*

C115a-C115b. Differential and Integral Calculus. RUSSELL

A continuation of Mathematics B13a, B13b. Both semesters. *IV.*

D119. Theory of Equations. RUSSELL

Theory and solution of higher algebraic equations, employing determinants, elimination and linear transformations. First semester. *II.*

D120. Differential Equations. RUSSELL

A general course in the theory and solution of differential equations. Second semester. *II.*

D121a-D121b. Higher Analysis. BRACKETT

An introduction to the realm of higher mathematics, including the intensive study of some particular subject, such as the theory of numbers or of real functions, designed to develop independence and power in mathematical reasoning. *(Omitted in 1924-1925.)*

D227. Projective Geometry. BRACKETT

A deductive study of the principles of projective geometry with special attention to the foundations of geometry. Second semester. *V.*

D219. The Teaching of Mathematics. RUSSELL

Lectures, readings, and discussions on what should be regarded as essential in the teaching of mathematics. First semester. 2 hours. *A.*

Military Science

This institution maintains an Infantry unit, senior division, of the Reserve Officers' Training Corps. Enrollment in the basic course, during the Freshman and Sophomore years, is required of all physically fit male students, unless excused by a properly authorized committee of the faculty. Those first taking the basic course in Sophomore year are required to continue the same in Junior year. The advanced course, for Junior and Senior years, is open to selected students, who have completed the basic course, and who sign an agreement to attend an advanced camp for not to exceed six weeks during one summer vacation. Students who have satisfactorily completed two full academic years in a Junior R. O. T. C. unit, will normally be admitted to the second year of the basic course. Students who have completed three full years in a Junior R. O. T. C. unit may be admitted to the advanced course in their freshman year.

A1a-A1b. Basic Course. GROSE and CLARKE

Elementary subjects of Military Training; Infantry Drill; Rifle Marksmanship. Both semesters. 1½ hours each. Class, *T* or *Th, VIII,* or *F, VII;* field work, *M, 1:15-3:10.*

B3a-B3b. Basic Course. GROSE and CLARKE

Military Map Reading and Sketching; Infantry Drill; Automatic Rifle; Musketry. Both semesters. 1½ hours each. Class, *Th, VIII, or F, IX;* field work, *M, 1:15-3:10.*

C105a-C105b. Advanced Course. CLARKE

Military Law; Field Engineering; Infantry Weapons (the pistol, machine guns, trench mortars and one-pounder gun.) Junior year. Both semesters. 3½ hours each. *II* and *M*, *1:15-3:10*.

D107a-D107b. Advanced Course. GROSE

Military History; Administration. Tactics. Senior year. Both semesters. 3½ hours each. *IV* and *M*, *1:15-3:10*.

Music

THEORY AND APPRECIATION

Courses in the Theory and Appreciation of music are granted credit on the same basis as other college studies and proficient students may major in either theoretical or applied music under conditions arranged in consultation with the head of the department.

A1a-A1b. Elementary Harmony. ALLEN and ALDERMAN

A study of intervals, scales, tonal magnetism, primary triads, dominant seventh and ninth chords, and all non-chordal tones. Harmonization of melodies. A2 is recommended. Prerequisite: Elementary knowledge of the pianoforte. Both semesters. Two sections. *I, II.*

A2a, A2b. Ear-Training and Sight-Singing. LUND

A study of scale tones and their relationships together with a development of rhythmic appreciation. Melodic and harmonic dictation with a view to discriminative listening and proficiency in sight-reading. Recommended for all Harmony students. Both semesters. Two sections. 3 hours' recitation. 2 hours' credit. *IX.*

B3a-B3b. History and Appreciation. ALLEN

A course tracing the development of music from ancient times to the present; biographical sketches of famous composers with a description of their principal works. Recitals, to aid in appreciation, are given frequently. Victrola and Duo Art. Both semesters. 2 hours each. *WF, XI.*

B5a-B5b. Advanced Harmony. ALLEN

Secondary harmonies. Modulation and chromatically altered chords. Extensive keyboard drill. Creative work is encouraged from the beginning. Harmonization conducted on a melodic basis. Prerequisite: Music A1 or equivalent. Both semesters. *VII.*

B11a, B11b. Form and Appreciation. BISSELL

The course aims to encourage independent constructive criticism and a more intelligent enjoyment of music. The first semester deals with the development and meaning of "form". In the second semester distinguishing features of various styles are examined, including an intensive study of the Sonata form. Prerequisite: Music A1 or equivalent. Both semesters. 2 hours each. *WF, XIII.*

C107a-C107b. Counterpoint. ALLEN

A study of Simple Counterpoint in the five species with an aim to develop technique in voice leading. Two and three part inventions. Creative work in the simple forms of Free Composition is undertaken during the course. Prerequisite: Music B5. Both semesters. *VI.*

C113a-C113b. Orchestration. HARTLEY

A study of orchestral instruments, their capabilities and limitations, and their use singly, and in groups; arranging of compositions for Symphony. "American" and "Theatre" Orchestra; the study of scores; the theory and practice of conducting. This course is especially designed to meet the needs of a student desiring the State Certificate. Prerequisite: Music B5. Both semesters. *XIII.*

D108a, D108b. Free Composition. ALLEN

Advanced original work in the shorter free styles followed by the Sonata form. Prerequisite: Music C107. Both semesters. *A.*

D219. Public School Music Methods. LUND

Selection, presentation and interpretation of the song. Methods of developing sight-singing and other technical problems. A brief study of child psychology. Teaching plans with a bibliography of material. Class work includes actual teaching practice. First semester. 2 hours. *A.*

APPLIED MUSIC

The student in applied music will be enrolled for credit toward the Bachelor of Arts degree only upon the written recommendation of the Chairman of the Examining Committee and the Head of the Department, and upon the subsequent favorable action of the Classification Committee. This recommendation is based upon the degree of ability and advancement shown in Proficiency Tests. In addition the work in applied music must be accompanied or preceded by Harmony A1. A second year or more of credit is possible when the applied course is accompanied or preceded by Harmony B5. A minimum of two half-hour lessons weekly

is required for which two hours' credit is allowed. No college credit is given for work below "B" (Sophomore) grade. Not more than 12 hours' credit in applied music may be counted toward the Bachelor of Arts degree unless the student is able to present a total of 8 hours of "D" (Senior) grade work in any subject. In this case 16 hours' credit may be allowed. Proficiency tests are required only of students desiring credit toward the Bachelor of Arts degree. For further details *see* Music Bulletin.

Voice — LYMAN, BABCOCK, LUND

Organ — HARTLEY

Piano — OLIVE, ALDERMAN, LUND

Stringed Instruments and Ensemble — UNIACKE

Orientation

A course which seeks to assist Freshmen to orient themselves in the major issues, problems and experiences in everyday life in the fields indicated.
Four courses required of all Freshmen. Not open to students of other classes. Each course covers about nine weeks and receives 1½ hours' credit.

A1. College Life and Study. — FITTS and ASSISTANTS
First semester. *IV.*

A2. Economic. — KIRK
Either semester. *IV.*

A4. Religious. — BROOKS
Either semester. *IV.*

A5. Governmental. — PITMAN
Either semester. *IV.*

Philosophy

B23. Ethics. — DENISON
A study of the field of morality, the problem of human freedom, the standard of judgment of right and wrong and the social and individual judgments on moral questions. An examination of conscience and reason. First semester. *V.*

C125a, C125b. History of Philosophy (Ancient, Mediaeval and Modern). — DENISON
A study of the main currents of thought from the earliest Greek thinkers through modern philosophic thought and cul-

minating in a constructive study of present-day philosophy. The course is designed to be a general and cultural introduction to philosophy through history. Both semesters. *VII.*

C127. Introduction to Philosophy. DENISON

A consideration of the problems of philosophic thought as these come out in Astronomy, Geology, Physics, Biology and Psychology, together with an examination of the method and spirit of science. Prerequisite: B course in Philosophy or Psychology. First semester. *IV.*

D129. Philosophy of Religion. DENISON

A philosophical examination of the fundamentals of religion, such as the nature of God, the problem of evil and the destiny of man. Prerequisite: Philosophy C125 or C127. First semester. *VI.*

D132. Philosophy of the State. DENISON

A philosophical study of the nature and function of the state and its basis in human nature, together with an examination of the philosophies of democracy, of the economic order and of internationalism. Some background in Social Psychology, Sociology, Economics or Political Science required. Second semester. *VI.*

D133. Philosophy of Evolution. DENISON

A study of the background of Darwin's idea of evolution with examination of later theories in their scientific and metaphysical aspects. Some adequate background in science or philosophy will be required. Second semester. *IV.*

D230. Philosophy Seminar. DENISON

Admittance by consent of the instructor. General subject for 1924-25: Contemporary Problems in Philosophy. Second semester. *A.*

Physical Education

MEN AND WOMEN

A5a-A5b. Informational Hygiene.[1] EVANS, ————

Must be taken in Freshman year by the women, and in Freshman or Sophomore year by the men, unless the equivalent is offered. Both semesters. 1 hour each. *T* or *Th, VIII.*

C125. Normal Growth. GREENE

A study of the development of the child, mentally, morally and physically. First semester. 2 hours. *TTh, IV.*

[1]The requirement of A5a-A5b, in the case of men, is waived for 1924-1925.

C127a-C127b. Playground Theory. HEATH
Both semesters. ½ hour each. *W, IX.* Fee, $2.50 each.

D130. Kinesiology. EVANS
First semester. *(Omitted in 1924-1925.)*

D133. Teaching of Hygiene. EVANS
First semester. 2 hours. *MW, III.*

MEN

A physical examination is given to all entering students, together with a series of physical efficiency tests. Upon the basis of these tests and examinations each student is assigned to courses in sports, gymnastics or corrective exercises, according to his physical needs.

A1a. Sports, Gymnastics or Corrective Exercises.
NIXON, HEATH, STREHLE
Required, Freshman year. First semester. ½ hour. *A.*

A1b. Self Defense. NIXON, HEATH, STREHLE
Required, Freshman year. Second semester. ½ hour. *A.*

A2a-A2b. Sports. HEATH, STREHLE
Required of Freshmen not taking military. Freshman year. Both semesters. ½ hour. *A.*

B3a. Swimming. STREHLE
Required, Sophomore year. First semester. ½ hour. *A.*

B3b. Sports or Gymnastics. NIXON, HEATH, STREHLE
Required, Sophomore year. Second semester. ½ hour. *A.*

B4a-B4b. Sports. NIXON, HEATH, STREHLE
Required of Sophomores not taking military. Sophomore year. Both semesters. ½ hour each. *A.*

C105a-C105b. Sports. NIXON, HEATH, STREHLE
Required, Junior year. Both semesters. ½ hour each. *A.*

C107a-C107b. Sports. NIXON, HEATH, STREHLE
Required, Senior year. Both semesters. ½ hour each. *A.*

D214. Teaching of Physical Education. NIXON
Theory of teaching physical education in elementary and secondary schools. Brief study of history and theory of physical education, of the various systems now in use, with emphasis on the California system. Some practice teaching. Second semester. 2 hours. *TTh, VIII.*

D135a-D135b. Methods in Coaching and Supervising Athletics. NIXON, HEATH, STREHLE

Open to Senior men only. Both semesters. 1 hour each. *A.*

WOMEN

A medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Each student is assigned to her gymnasium class section. Students may have freedom of election in sports in as far as medical and physical examinations warrant, but must include during freshman and sophomore year one individual sport, one team or group sport, and one season of either folk or natural dancing.

A11a-A11b. Gymnastics. GREENE, DILLON

Required, Freshman year. Both semesters. ½ hour each. *MW, VII or XIII.*

A12a-A12b. Sports. EVANS, GREENE, DILLON

Required, Freshman year. Both semesters. ½ hour each. *A.*

B13a-B13b. Gymnastics. GREENE, DILLON

Required, Sophomore year. Both semesters. ½ hour each. *TTh, VIII* or *XIV.*

B14a-B14b. Sports. EVANS, GREENE, DILLON

Required, Sophomore year. Both semesters. ½ hour each. *A.*

C115a-C115b. Sports. EVANS, GREENE, DILLON

Required, Junior year. Both semesters. ½ hour each. *A.*

C117a-C117b. Sports. EVANS, GREENE, DILLON

Required, Senior year. Both semesters. ½ hour each. *A.*

C122a-C122b. Playground Dancing. EVANS

Open only to those taking Physical Education C127. Both semesters. ½ hour each. *W, XI.*

D212. Theory of Teaching of Physical Education. EVANS

Second semester. 2 hours. *MW, III.*

D119a-D119b. Methods in Coaching and Supervising Sports. EVANS, DILLON

Both semesters. 1 hour each. *F, XI.*

D131. Study and Treatment of Growth Divergencies. GREENE

Prerequisite: Physical Education D130. Second semester. Lecture, 2 hours; laboratory, 1 hour. *A. (Omitted in 1924-1925.)*

Physics

A1a-A1b. Elements of Physics. HITCHCOCK

Designed for those having had no previous work in the subject. Prerequisite: Elementary Algebra and Plane Geometry. Both semesters. Class, *MW, V;* laboratory, *T, 1:15-4:10.* Laboratory fee, $5.00 each.

B2a-B2b. General Physics. HITCHCOCK

Meeting the Physics requirements of courses in medicine, chemistry and civil engineering. Prerequisite: Algebra through Quadratics, Plane Geometry and Plane Trigonometry. Class, 4 hours a week; laboratory, one period a week. Both semesters. 5 hours. Class, *III and Th, X;* laboratory, *Th, 2:15-4:10.* Laboratory fee, $5.00 each.

B3a-B3b. Mechanics of Solids and Fluids, Heat and Sound. HITCHCOCK

Designed for those preparing for mechanical or electrical engineering. Prerequisite: The equivalent of High School Physics, Mathematics through differential and integral calculus. Both semesters. *(Omitted in 1924-1925.)*

C105a-C105b. Magnetism, Electricity and Light. HITCHCOCK

Both semesters. *(Omitted in 1924-1925.)*

C111a-C111b. Advanced Magnetism and Electricity. HITCHCOCK

Prerequisite: Physics B2 and Differential and Integral Calculus. Both semesters. *IV.*

D109a-D109b. Physical Measurements. HITCHCOCK

Both semesters. 2 hours each. *A.* Laboratory fee, $8.00 each.

Political Science and Law

B1. Elementary Law. BURGESS

An introduction to American law, including study of the fundamental conceptions of all law together with the history and system of the Common Law as developed in England and the United States. First semester. *I.*

B3. Introduction to Political Science. ———

A study of the meaning of fundamental terms in Political Science and of the basic principles of Government. First semester. *(Omitted in 1924-1925.)*

B4. American Government. BURGESS

A study of the principles and problems of American Govern-

ment. Principal attention is given to the federal system and to the national government, but some attention is also paid to state government. Second semester. *I.*

C103. Pleading. NEELY

A course in pleading; taught by text books and also by the case method. The principles of the science of legal pleading. First semester. *I.*

C117. American Diplomacy. NEELY

Presents the history of the foreign relations of the United States by text books, lectures and the study of the important treaties to which the United States is a party. First semester. *II.*

D104. Evidence. NEELY

Follows the work in pleading, and deals with the rules, principles and decisions upon the science of evidence. Second semester. *I.*

D111a-D111b. American Constitutional History. NEELY

A study of the background of history with regard to the Constitution of the United States, and an examination of the Constitution itself and the decision of the Supreme Court upon questions raised under the Constitution. Both semesters. *IV.*

D118. International Law. NEELY

Follows the course in American Diplomacy, broadening the study of relations among nations, emphasizing the part the United States Government has taken in conferences, meetings at the Hague, and by the announcement of the co-operation of the United States with all other governments in formulating rules of international law. Second semester. *II.*

Psychology

B1. Elements of Psychology. EWER

The fundamental facts and laws of the mind. Principles of sensation, perception, memory, thought, feeling, emotion, instinct and will. The relation of mental processes to the nervous system and to action. Either semester. First semester, *III;* second semester, *V.*

B3a-B3b. Elements of Psychology. EWER

A more comprehensive course than B1, including class room experiments and demonstration in addition to text book, reference books and lectures. Both semesters. *IV.*

C106. Problems of Psychical Research. EWER

The mysterious phenomena of the mind presented in the light of scientific psychology. The subjects considered include

hyperesthesia, automatisms, illusions and hallucinations, hypnotism, contemporary occultism and spiritualism. Second semester. *VI.*

C107. Educational Psychology. EWER

Practical applications of psychology to education. The inherited nature of the learner; principal features of the learning process; principles of educational discipline; methods of mental measurement. First semester. *VII.*

C108. Applications of Psychology. WILLIAMS

A critical study of the fundamental psychological principles underlying all applied psychology together with their application to typical applied fields. Second semester. *III.*

C116. Comparative and Genetic Psychology. WILLIAMS

An intensive study of the methods used and the results obtained in the fields of animal and infant psychology. First semester. *(Omitted in 1924-1925.)*

C118. Experimental Psychology. WILLIAMS

A laboratory course in psychology accompanied by lectures and discussions of the principles of scientific method used in psychological investigations. Second semester. Class, *WF, V;* laboratory, *M, 1:15-4:10.* Laboratory fee, $2.00.

D112. Social Psychology. EWER

Mental processes underlying social order and progress. Social instincts and sentiments, forms of social imitation and suggestion, the social aspects of self-consciousness, the mental life of the crowd and the organized group. Psychological aspects of contemporary social problems. First semester. *VI.*

D117. The Measurement of Intelligence. WILLIAMS

A study of the principles and methods of intelligence testing with special emphasis upon the methods of giving the Stanford Revision of the Binet Tests. Second semester. *VII.*

D130. Psychology of Religion. WILLIAMS

An analytic study of the mental processes involved in the phenomena of religious emotion and belief. Second semester. *VI.*

D230. Seminar in Psychology. EWER

A thorough study of certain psychological problems. The topics change from year to year. Second semester. *A.*

Public Address

A31a-A31b. Fundamentals of Speech. SCOTT

Platform deportment and gesture. Development and use

of the speaking voice. Both memorized and extempore speech material. Both semesters. 2 hours each. *MF, III.*

B32a-B32b. Public Address. SCOTT

Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. Prerequisite: Public Address A31, or equivalent. Both semesters. 2 hours each. *TTh, VI.*

B33. Argumentation. SCOTT

Principles of argumentation, analysis and phrasing of propositions, gathering and arrangement of evidence, briefing, developing complete argument. At least one practice debate. First semester. *V.*

B35. Debate. SCOTT

Research and practice class to develop debaters for the season's contest. Debate subjects for the season analyzed and debated in class. First semester. 2 hours. *TTh, IV.*

B36. Parliamentary Usage. SCOTT

Principles of parliamentary procedure and their application in the organization and conduct of assemblies. Second semester. 2 hours. *TTh, IV.*

C131a-C131b. Advanced Public Address. SCOTT

Training in the construction and delivery of formal addresses. Prerequisite: Public Address B32 or equivalent. Both semesters. 2 hours each. *Th, S, VIII.*

C134a-C134b. Interpretative Reading of Dramatic Literature. RICKABY

The intensive study of a limited number of standard plays, with emphasis on dramatic values in character and plot. Presentation of scenes from such plays and of several one-act plays entire. Prerequisite: Public Address A31, or equivalent. Both semesters. *XIII.*

Religion

B3. Old Testament History and Religion. BROOKS

First semester. 1 hour. *F, XI.*

B5. The Prophets. BROOKS

Second semester. 1 hour. *F, XI.*

B106. Introduction to New Testament. HAND

A careful study of such questions as date, authenticity, authorship, composition, integrity, purpose and contents of the documents which comprise the New Testament. First semester. 2 hours. *TTh, XII.*

B107. The Teachings of Jesus. HAND

Special emphasis is laid on Jesus' conception of the Kingdom of Heaven, his revelation of God and his doctrine concerning his own person and his claims on the fealty of men. Second semester. 2 hours. *TTh, XII.*

C104a, C104b. Christian Origins. BROOKS

The purpose is to understand the program of Jesus in relation to present day problems. A survey of the transformation in Christianity in the age of the Apostles. Both semesters. *V.*

C109a, C109b. The Religious World. BROOKS

This course surveys the origin and growth of religious experience, the characteristics of a fully developed religion, the rise of modern religious ideas, and the place of religion in social reconstruction. Both semesters. *III.*

C125. History of Religions. TAYLOR

A study of the nature of religion, with special reference to the essential facts of early religions, and a more thorough study of existing non-Christian religions, their chief teachings and influences. First semester. *IV.*

C126. History of Christianity. TAYLOR

A study of the chief facts of Christian history, with reference to the great leaders and teachings of Christianity. A study of successive movements through which God has worked out his purpose. Second semester. *IV.*

C131. The History and Principles of Religious Education. MARRIOTT

A brief survey of the development of religious education followed by a careful study of the present trend in the theory of religious education. First semester. 2 hours. *TTh, XIV.* *(Omitted in 1924-1925.)*

C132. The Methods of Religious Education. MARRIOTT

A study of the methods of teaching religion based upon actual practice work carried on by members of the class under supervision of the department. Second semester. 2 hours. *TTh, XIV.*

D129. Philosophy of Religion. DENISON

A philosophical examination of the fundamentals of religion, such as the nature of God, the problem of evil and the destiny of man. Prerequisite: Philosophy C125 or C127. First semester. *VI.*

D130. Psychology of Religion. WILLIAMS

An analytic study of the mental processes involved in the phenomena of religious emotion and belief. Second semester. *VI.*

Spanish

A21a-A21b. Elementary. A. T. BISSIRI and ANDERSON

Essentials of grammar and pronunciation. Dictation, reading, from easy modern texts. Both semesters. Four sections. *II, II, III, VII.*

B23a-B23b. Nineteenth Century Novel.

A. T. BISSIRI and ANDERSON

Selections from Perez Galdoz, Valdes, Valera, Pereda, Blasco Ibanez. Collateral readings and reports, reports in Spanish. Prerequisite: Spanish A21 or equivalent. Both semesters, Three sections. *I, VI, VI.*

B24a, B24b. Composition and Commercial Correspondence.

ANDERSON

This course includes intensive drill in conversation and grammatical reviews. Prerequisite: Spanish A21a or equivalent. Both semesters. Two sections. 2 hours each. *TTh, XII*, and *VIII.*

C125. Drama of the Nineteenth Century. A. T. BISSIRI

Readings from the leading dramatists of the last century. Lectures. This course, and all to follow, conducted in Spanish. First semester. *VIII.*

C126. Drama of the Golden Age. JONES

Readings from Calderon, Lope de Vega, Tirso, J. R. de Alarcon, and others. Lectures in Spanish upon the history of Spanish literature. Collateral readings and reports. Required of those majoring in Romanic Languages and specializing in Spanish. Second semester. *VIII.*

C126 (bis). Contemporary Spanish Drama. A. T. BISSIRI

A study of Benevente, Rivas and others of the leading dramatists of the present century. Collateral readings and reports in Spanish. Second semester. *VIII.*

C127a-C127b. Spanish Conversation. PIJOAN

Intensive drill in modern colloquial forms. Prerequisite: Spanish B23. Both semesters. 1 hour each. *A.*

D128a-D128b. America del Sur. JONES

A comprehensive and detailed study of the geographical, historical, literary and cultural phases of the leading Latin American nations. Prerequisite: Spanish C125 and C126. Both semesters. *VII.*

D129. Seventeenth Century Prose. PIJOAN

La Celestina. El Lazarillo. Prerequisite: Spanish C126. First semester. *II.*

D130. El Romancero. PIJOAN

The early Spanish ballads. El Poema del Cid. A study of the earliest manifestations in Spanish literature. Prerequisite: Spanish C126. Second semester. *II.*

D219. The Teaching of Spanish. ANDERSON

Second semester. 2 hours. *A.*

Zoology

B3a-B3b. Anatomy and Physiology. GILCHRIST

A course in the general principles of physiology with enough anatomy to make the subject intelligible to the general student. Two class hours a week; laboratory, one period a week. Both semesters. *WF, I;* laboratory, *Th, 1:15-4:10.* Laboratory fee, $6.00 each.

B11. General Zoology. HILTON, GILCHRIST

Chiefly invertebrate groups considered. A general course which deals with the classification, general habits and distribution of animals. Prerequisite: Biology A1 or equivalent. First semester. Class, *TTh, II;* laboratory, *T or W, 1:15-4:10.* Laboratory fee, $6.00.

B12. Vertebrate Zoology. HILTON, GILCHRIST

A continuation of B11. This course deals with the vertebrate groups, their general classification, habits and distribution. More attention is given to the comparative structures of back-boned animals. Prerequisite: Zoology B3 or B11. Second semester. Class, *TTh, II;* laboratory, *T or W, 1:15-4:10.* Laboratory fee, $6.00.

B18. Entomology. HILTON

A general course in the structure and classification of insects. Each student makes his own collection for identification and study. Prerequisite: Biology A1 or Zoology B11. Second semester. Class period, *T, VIII;* laboratory, *W and Th, 1:15-4:10.* Laboratory fee, $6.00.

C111a, C111b. Advanced Zoology. GILCHRIST

A study of habits, reactions or behavior of animals with some consideration of their classification and distribution. Invertebrate, first semester; vertebrate, second semester. A considerable portion of the second semester will be devoted to a study of local birds. Lecture, one hour a week; laboratory and field work, two periods. Prerequisite: Zoology B11. Both semesters. *A.* Laboratory fee, $3.00 each.

C113a, C113b. Histology. HILTON

The first semester considers the tissues in general and the

second the organs, especially of vertebrates. Some attention given to laboratory methods. This course is very helpful to special students of Zoology as well as to those expecting to prepare for medicine. Prerequisite: Zoology B3 or B11 and B12. Class, *T, IV;* laboratory,*TTh, 1:15-4:10.* Laboratory fee, $8.00 each.

D117a, D117b. Embryology. GILCHRIST

The first semester deals with maturation, fertilization and early development. The second semester is concerned with the formation of organs. Prerequisite: Zoology B3 or B11 and B12. Class, *M, V;* laboratory, *MW, 1:15-4:10.* Laboratory fee, $8.00 each.

D131. Zoological Seminar. HILTON, GILCHRIST

Reviews of important contributions in all fields of recent Zoological literature. Open to Juniors and Seniors. Second semester. 1 hour. *F, I.*

D133a, D133b. Neurology. HILTON

A general consideration of the functions and structure of the nervous systems and sense organs. Prerequisite: Two years of Zoological work. Both semesters. *A.* Laboratory fee, $6.00 each.

D135. Zoological Research. HILTON

This course is for undergraduates who are prepared to undertake special problems in general Physiology, Zoology or Entomology. Such problems may be with local insects or other animals or they may be of a general nature dealing with life functions and processes. Either semester. 1 to 3 hours. *A.* May be repeated for credit. Laboratory fee, $2.00 per hour.

D215. Zoological Research. HILTON

This course is like D135 but is intended for graduate students only and may include some of the work for the master's degree. 2 to 5 hours. *A.* May be repeated for credit. Laboratory fee, $2.00 per hour.

ADMINISTRATION

Registration

All students are required to register on one of the regularly announced days of registration preceding the opening of the class work of each semester. A fee of two dollars is charged for later registration and a payment of one dollar for any change in the list of subjects chosen. This latter payment is remitted in the case of new students registering for the first time, provided the changes are made within a week of the opening day of the registration period.

Students are admitted to those courses only for which they are formally registered.

Matriculation

Matriculation implies the meeting of all entrance requirements and the proven ability to carry college work. To this end the standing of all new students is provisional until after they have been in residence for one semester. At that time those are matriculated who have shown themselves in accord with the spirit of the College, who have done a satisfactory quality of work during their semester of residence and whose entrance units are acceptable.

Election of Courses

On or before the first Saturday in January after the Christmas recess, and the first Saturday in June, all resident students must fill out a schedule listing their choice of subjects for the following semester.

Changes from this schedule may be made upon the payment of a fee of one dollar. Failure to prepare such a schedule at the appointed time subjects the student to a fee of two dollars. Students may not select less than twelve hours of work without the special permission of the Classification Committee.

Public Assemblies

Devotional exercises conducted ordinarily by the Dean or some member of the faculty, or by an invited guest, are held in the chapel Monday, Tuesday, Thursday and Friday mornings; all students are expected to be present.

The Christian Associations meet at the chapel hour on Wednesday.

The policy of the College is to urge the students to associate themselves for worship with the Claremont Church or those in neighboring communities. For this reason there is no regular appointment for College worship on Sunday, though many forms of religious activity are maintained in connection with the churches.

Reports

A record of the scholarship and deportment of each student is kept, and deficient students are reported to the Registrar. Special reports are made at or near the Thanksgiving and Spring recesses; notification is sent to the parents of any students reported as deficient then, or at the end of the semester. Grades will be sent at any time upon request of parents.

The grade of scholarship is determined by the daily work of the classroom supplemented by frequent test reviews and by final examinations.

The aim is to encourage faithfulness and regularity in daily work rather than spasmodic effort to meet some single test.

Physical Attention

The physical care of students is a matter of special concern to the College and the advantages of unusual attention and opportunity are offered. The climate of Southern California offers an out-of-door life the year round. Oversight is given to open-air athletics in all seasons. A regular physician is on the faculty of the College, under whose direction every student

on entering has a physical examination. Regular work in physical education is prescribed throughout the four years, and courses in Physiology and Hygiene are given. A large swimming pool is provided, access to which is free to all students, subject only to a semi-annual physical examination. The medical advice of the College physician is ordinarily available free of charge to all students, subject to certain conditions of hours and location of residence, the College meeting these bills; provided that all nursing, surgical dressing, and medicines are at the expense of the ill or injured. *The College, however, reserves the right to discontinue this individual medical service at any time without previous notice.* As a natural result of all this attention the health of the College is such as to give special assurance to all considering attendance at Pomona.

General Requirements

Students are expected to be loyal to the spirit and purpose of the institution and to maintain regular attendance on all College appointments. Any student who falls below grade in scholarship, or who, for any reason, in the judgment of the faculty or its proper committees, is felt not to be a desirable member of the student body, may be dismissed without specific charges.

It is assumed that, as far as possible, students will room at the College residence halls and board at the College Commons. Any other arrangement for room or board must have the approval of the proper Dean. Lists of approved rooms for men are kept at the office of the Dean of the College; for women, at the office of the Dean of Women. All rooms in the College residence halls are rented for the College year. Unless there is a written agreement to the contrary, it is assumed that rooms in private houses are rented for one semester. Change of rooms is made only by permission of the Deans.

To avoid misunderstanding between students and householders, it is advised that agreements regarding rooms be put in written form.

It is urgently pointed out to both students and parents that the value of a college education consists in no small degree in the fullest participation in the college atmosphere and life. It is important, therefore, that all absence through the college year should be avoided. Some of the most important of the college values are lost by absences on Saturday and Sunday, on which days are centered particular and vital phases of the common life, and it is therefore urged that over-Sunday visits at home or elsewhere be avoided.

Experience bears out the conclusion that the owning or renting of automobiles by students while in residence at College, except in cases where they are used regularly for local transportation to and from college, is a distinct detriment to faithful participation in those common phases of college life which are of greatest value, and especially discourages concentration upon a serious program of study. The College, therefore, strongly advises parents not to provide automobiles for students, except when they are a practical necessity in carrying forward a normal collegiate program of study and work.

The use of tobacco is discouraged at all times.

Detailed information regarding college requirements is found in the *Manual of Procedure*, which should be secured by all students at the office of the Registrar.

Expenses

Rooms in College Residence Halls. A deposit of $10.00 is necessary to secure a room and should accompany the application for the room. This amount is retained as a breakage fee, from which deductions will be made for individual and communal damages to the building, the balance being returned at the end of the year. Rooms are assigned to new students in order of application.

The charge for rent does not include the use of the halls during the Christmas and Spring vacations when the halls are closed.

The residence halls are opened the Saturday before the opening of the College year and closed the second day after commencement.

Each room is provided with the necessary furnishings, including rug for the floor; the only articles to be furnished by the student are towels, and linen and covers for a single bed.

The College reserves the right to dismiss from a dormitory without rebate any student who becomes a disturbing or undesirable occupant.

SMILEY HALL. This dormitory for men has both single rooms, and suites of three rooms accommodating two students. As the rooms are equally desirable, each occupant pays $100.00 for the College year.

RESIDENCE HALLS FOR WOMEN. Harwood Court, the beautiful residence hall for women, in which is included the dormitory known as Strong Hall, was completed in 1920. It has both single and double rooms, as well as suites for two or three students. For each individual the charge is ordinarily $150.00 for the College year. In a few cases rooms are $130.00 each, if occupied by two students; $200.00 if occupied by one.

The cottages have double rooms, each student paying from $120.00 to $140.00 per year, according to the location of the room.

Women occupying College residence halls or cottages are expected to board in the College dining-room, and rooms are rented in these buildings only in conjunction with the advance payment for board. Freshman women not resident in their own homes are also expected to board in the College dining-room.

BOARD. In the College dining-room provision is made for the boarding of students under the direct management of the College. The rates are the lowest consistent with good quality of food and service, the approximate cost for 1924-1925 being

$260.00. Arrangements may be made to pay either by installments or by the semester. All board bills are payable in advance.

In addition to the College dining-room there is a cafeteria dining-room seating approximately one hundred students. The quality and cost of food in the two rooms are the same.

Men or women wishing to board at other approved places than the College dining-room or the cafeteria may do so by permission of the proper Dean, except as specified above.

SUMMARY OF EXPENSE. The necessary expense for the College year, exclusive of fees for special courses and expenses which are purely personal, is about $650.00. Bills are due each semester in advance, and must be paid upon registration. If parents desire bills to be sent home, written request should be made before the beginning of a semester.

No student will be retained in the institution or given honorable dismissal whose bills are not paid or arranged for.

TUITION

All tuition bills must be paid at the beginning of each semester. Until this has been done cards entitling the student to admission to classes will not be issued.

GENERAL CHARGES

Regular tuition, including all general privileges, Music and Drama Course Ticket, Library privileges, etc. per semester	$125.00
Tuition for students carrying less than twelve hours of work, for each such hour, per semester, exclusive of above general privileges	10.50
Tuition for graduate students, per semester	75.00

CHARGES IN MUSIC AND ART[1]

For those paying regular tuition:

For each half-hour private lesson in music per week, per semester 35.00

For each two-hour class lesson per week in art, per semester 18.00

For those carrying less than twelve hours of college work, exclusive of work in music or art:

For one half-hour private lesson in music per week, per semester 50.00

For each half-hour private lesson in excess of one, per semester 35.00

For each two-hour class lesson in art per week, per semester, for the first lesson 25.00

For each additional lesson 18.00

Sketch class, per semester 1.00

For juveniles under high school age, and not given college privileges:

For one half-hour private lesson in piano, per week, per semester 25.00

For two half-hour private lessons in piano per week, per semester 47.50

Fees

Graduation fee, $10.00.

Laboratory fees range from $2.00 to $15.00. The exact fee for a given course is stated in connection with the description of that course under Departments of Instruction; in advanced courses only does it exceed $10.00.

[1]Students may register for Applied Music at any time, equitable charges being arranged upon application.

A visitor's fee of $5.00 is required from those visiting a course of study and $3.00 for each additional course.

Breakage Deposits

Bacteriology and Plant Physiology, $5.00 each.
Chemistry, $10.00 for each course taken.

Practice fees for the use of College pianos and organs:

PIANO

One-half hour daily, per semester (voice students)	$ 3.50
One hour daily, per semester	6.00
Two hours daily, per semester	12.00
Three hours daily, per semester	18.00

GRAND PIANO

One hour daily, per semester	$ 9.00

Additional hours at same rate.

GREAT ORGAN IN BRIDGES HALL

One hour weekly, per semester	$ 7.50

Additional hours at same rate.

PRACTICE ORGAN

Two hours weekly, per semester	$ 6.00
Three hours weekly, per semester	8.25
Four hours weekly, per semester	10.50
Five hours weekly, per semester	12.75
Six hours weekly, per semester	15.00

VIOLIN

Room without piano, one hour daily, per semester	$ 1.50

Additional hours at same rate.

PEDAL ORGAN

One hour daily, per semester..... 9.00

Refunds

Tuition. A refund amounting to one half of the tuition paid is granted to those leaving before the middle of the semester because of illness.

Fees. A refund amounting to one half the fee paid, is made in case of withdrawal from laboratory courses before the middle of the semester.

Room. Students withdrawing from College during a semester, receive a refund in case the room is re-rented.

HONORS AND PRIZES

Honors at Graduation

Honors at graduation are of two types, General Honors and Departmental Honors.

General Honors: Graduation "*cum laude*" is granted to those who earn 50 per cent more credits than hours and graduation "*magna cum laude*" to those earning 75 per cent more credits than hours. The honor "*summa cum laude*," if granted, is awarded by a committee "consisting of one member of the faculty selected from and by each (group) division of the Faculty" from the number of those entitled to the "*magna cum laude*."

In the determining of General Honors all the work taken is considered except the required work in Physical Education.

The honor of speaking on Commencement Day is awarded three members of the graduating class who have distinguished themselves in scholarship and who possess literary and oratorical ability.

Departmental Honors: Juniors of special ability are permitted to pursue for the remainder of their college work a special *Honors Course* which involves partial freedom from classroom requirements and comprehensive examinations at the end of the senior year. Such students are expected to read widely over a field somewhat broader than a single department, and also to develop rather intensively a narrower field. Their initiative is expected to lead them to more than usual understanding.

Students who successfully complete the *Honors Course* are given degrees "with Honors in————————(name of department)" or "with High Honors in————————(name of department)."

Further information concerning the *Honors Course* may be obtained from the Honors Committee of the Faculty.

Honors in Course

Course Honors are given at the end of each semester to undergraduate students who average 85 per cent more credits than the honors for which they were registered. The grades in Physical Education and Applied Military Science are not considered in the award of these honors, save that they must be at least passing.

Course Honors for the first semester are published early in the second semester; those for the second semester early in the next fall, save that second semester honors of seniors are published Commencement Day.

The Phi Beta Kappa Society

The Pomona Chapter of Phi Beta Kappa is the Gamma of California.

Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

Prizes

The following prizes are offered for proficiency in the work of the several departments:

The Carolyn Alchin Music Prize: A prize for the best work in Advanced Harmony. A prize of ten dollars is given by Miss Carolyn Alchin.

The Llewellyn Bixby Mathematics Prize: A prize for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics B13 and C115. A prize of ten dollars is given by Mr. Llewellyn Bixby.

The Dole Prizes: A prize debate, open to the Sophomore class, upon some subject selected by the faculty, is arranged for the close of the second semester. First and second prizes of ten and five dollars, respectively, established by the late Mr. J. H. Dole, in memory of his brother, Mr. W. B. Dole, are endowed by Mr. J. Albert Dole and Mrs. A. M. Dole.

The Hager Prizes: Prizes for the best three essays on a foreign missionary subject, open to all students. Prizes of

ten dollars each were endowed by the late Mr. and Mrs. C. R. Hager.

THE KINNEY PRIZES: A prize declamation contest, open to the members of the Freshman class, occurs toward the end of the first semester. First and second prizes of ten and five dollars, respectively, are given by Mrs. H. N. Kinney.

THE LORBEER PRIZES: Prizes for the best essay on the subject, "How to Keep Well"; open to all who take the course in Anatomy and Physiology. First and second prizes of fifteen and ten dollars, respectively, are given by Dr. Thomas L. Lorbeer, '03.

THE MONCRIEFF ASTRONOMY PRIZE: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of ten dollars is given by Miss Flossie C. Moncrieff, '11.

THE MUDGE LATIN PRIZES: Prizes for excellence in Latin offered to those completing Latin D114. First and second prizes of ten and five dollars, respectively, are endowed by friends of the College.

THE VAILE PRIZES: Prizes for the best essay or oration on the general subject of Agriculture in Southern California; open to the Junior and Senior Classes. First and second prizes of fifteen and ten dollars, respectively, were endowed by the late Mr. Charles S. Vaile.

SCHOLARSHIPS AND BENEFICIARY AID

The income of certain funds is used towards paying the tuition fees of students who are in pecuniary need, and, by authorization of the trustees, is distributed annually through a committee of the faculty. Scholarship aid is given only to students who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who do not use tobacco, who are regular in their attendance upon college exercises, and whose scholarship meets the following condition: The maintaining, after the first semester of the Freshman year, of at least "C" grade.

Applicants for aid who have not yet entered College should forward to the Chairman of the Committee on Student Aid and Labor, a formal application accompanied by two letters, one from parent or guardian and the other from principal or teacher, giving information concerning need, character and attainments. They should also send a certified statement of their scholastic record. All applications for aid must be renewed annually on or before May first.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions, and is permanently withdrawn after the second forfeiture due to low standing or unsatisfactory deportment.

Recipients of scholarship aid may be called upon to assist the College in ways that do not interfere with their studies.

Awards are made from the income of the following funds:

THE FRANCIS BANCROFT MEMORIAL FUND, $1,500. Given by Mrs. James T. Ford of Los Angeles, California, in memory of her father.

A FUND OF $2,500. Given by L. H. BARROWS.

THE H. G. BILLINGS MEMORIAL SCHOLARSHIP, $1,000. Given by Mrs. E. A. Billings of Los Angeles, California, in memory of her husband.

THE MABEL S. BRIDGES MEMORIAL SCHOLARSHIP, $3,500. Given by Mr. and Mrs. A. S. Bridges of San Diego, California, in memory of their daughter. Available for women.

The Kate Condit Brimhall Memorial Music Scholarship Fund, $2,000. Given by Mr. and Mrs. A. P. Condit of Pomona.

The Bristol Memorial Fund, $400. A fund raised as a memorial to the Reverend Sherlock Bristol.

The Henry Herbert Brown Scholarship Fund, $1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of her son.

The Bessie A. Brown Scholarship Fund, $1,000. Given by Mrs. Fannie E. Brown of Los Angeles, California, in memory of Bessie A. Brown.

A Fund of $911.78. Given by the Class of 1918 towards the founding of a scholarship.

The Charles C. Cragin Memorial Scholarship Fund, $5,025. Given by Mrs. Laura E. Cragin in memory of her husband, Rev. Chester Charles Cragin.

The Agnes K. Crawford Memorial Fund, $1,000. Given by David R. Crawford and William Crawford of Pomona, California, in memory of their mother.

A Fund of $2,600. Given by Mary E. Elwood of Redlands, California.

A Fund of $2,500. Given by Rev. James T. Ford of Los Angeles, California.

A Fund of $1,000. Given by Mrs. Margaret Fowler of Pasadena, California.

A General Fund of $475.

A Fund of $5,000. Given by Charles E. Harwood, LL.D., of Upland.

The Thomas F. Howard Memorial Scholarship, $2,000. Given by Dr. and Mrs. H. G. Brainerd of Los Angeles, California, in memory of Mrs. Brainerd's father.

A Fund of $2,000. Given by Henry L. Kuns of La Verne.

A Fund of $1,800. Given by Miss Jean Loomis, '97, of Nanking, China.

The Howard J. Mills Fund of $3,000. Given by Mrs. Howard J. Mills of Los Angeles, California, in memory of her husband.

The Ontario Congregational Church Fund, $186.50. Given by the Ontario Congregational Church towards the founding of a scholarship.

A Fund of $5,000. Given by Mrs. Loraine H. Page of Pomona, California. (Three thousand dollars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Scholarship, $2,000. Given by Mrs. C. S. and Mr. C. A. Phelps of Claremont, in memory of their son and brother.

The Lydia Phelps Memorial Fund, $4,000. Given by Hiram E. Phelps of Ontario, California, in memory of his wife.

The Pilgrim Church of Pomona Fund, $1,367.44. Given by the Pilgrim Congregational Church of Pomona towards the founding of a scholarship.

The John D. Potter Memorial Fund, $2,000. Given by Mrs. S. T. Potter of Westboro, Massachusetts, in memory of her husband.

A Fund of $1,800. Given by Dr. Anna H. Searing of Escondido, California.

The Walter O. Shatto Memorial Fund, $4,000. Given by Mrs. Clara R. Shatto in memory of her husband.

The Clyde H. Shields Scholarship, $200 (to be increased). Given by R. P. Shields of San Diego, in memory of his oldest son, who was drowned in 1894, when about twenty-one years of age.

The Sweet Scholarship of $2,500. Given by Harlan P. Sweet in memory of his wife, C. Nell Sweet.

A Fund of $2,000. Given by Miss Susan E. Thatcher of San Diego.

A Fund of $1,000. Given by Mrs. Maria T. Wardwell of Plymouth, Connecticut.

A Fund of $2,000. Given by Henry S. West of Los Angeles.

The College also administers loan funds established by the bequest of Ellen H. Lyman and by George H. De Kay, Jr., in memory of his brother Frelin Campbell De Kay. By means of these funds, it is possible to co-operate in a moderate way, and temporarily, with the pressing need of students. These funds have been of such important service as to indicate the great need for the increase of such resources, which in the hour of special emergency may often save a student to a college career.

Scholarships in music are awarded each year from a fund of $1,000, given by the Juilliard Foundation.

The Harmon Foundation extends to four selected students its assistance by a loan for tuition.

SELF-SUPPORT

A committee of the faculty endeavors to find employment for students needing to earn a part of their expenses. Many are thus helping themselves by various forms of labor such as janitor work, waiting on tables at the Commons, general house work, gardening and the like. The most desirable positions are in general secured by upperclassmen who have proven themselves good workers and good students, and those coming to the College for the first time should be content if any work which they can satisfactorily do is secured for them. Students in any case should come prepared to pay all bills for at least one semester. Their record during this semester will be a large factor in deciding what opportunities for self-help will be open to them. Applications for aid in securing employment should be addressed to the Chairman of the Committee on Student Aid and Labor.

BUILDINGS AND EQUIPMENT

The College grounds consist of about four hundred acres, of which sixty are included in Blanchard Park, about ten in Alumni Field, thirty in a prospective athletic field, fifty in the campus proper, centering in Marston Quadrangle, and two hundred and fifty in a newly acquired tract, the gift of Miss Ellen B. Scripps.

There are nineteen buildings on the campus, heated from a central heating plant.

The Mary L. Sumner Hall, named in memory of the wife of Professor Charles B. Sumner, has been removed from its original site and remodeled for administrative and faculty uses.

Holmes Hall, a memorial of Cyrus W. Holmes, Jr., of Monson, Massachusetts, reconstructed in 1916 in conformity with more modern plans for buildings and campus, is devoted mainly to chapel, recitation rooms, the Business office, and various offices of administration.

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons, contains the laboratories and lecture rooms of the departments of physics, psychology, mathematics and engineering.

The Library, the gift of Mr. Andrew Carnegie, is an imposing structure, exceptionally well adapted to the purposes for which it was built.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, is designed throughout to be of service to the student in the direct study of the stars.

The Albert K. Smiley Hall is the dormitory for men. It has both single rooms and suites of three rooms, affording accommodations for eighty students. The dormitory has all modern conveniences and is completely furnished.

Harwood Court is a large and adequate dormitory affording accommodations for about two hundred women.

The College also owns several cottages, in which similar accommodations can be secured. These facilities have been made pos-

sible by large and generous gifts from friends of the College, whose names they bear.

Rembrandt Hall, the first section of the Art Building, is devoted chiefly to the work of the Department of Art. The upper floor contains studio and work rooms; the lower floor a convenient auditorium of moderate size for exhibits and assemblies.

The Mabel S. Bridges Hall of Music, the gift of Mr. and Mrs. Appleton S. Bridges, of San Diego, offers opportunities for the study of music unexcelled in the West.

The Gymnasium, comprising three commodious structures, affords ample equipment for physical training and includes a large swimming pool.

The Claremont Inn has, besides two large student dining-rooms, accommodations for eighty guests.

The Open-Air Theater, built to take advantage of the natural setting of Blanchard Park, though uncompleted, has at present a seating capacity of over 4000.

The Harwood Hall of Botany, the gift of Mr. A. P. Harwood, of Upland, contains lecture rooms and laboratories for the use of the Department of Botany.

The Memorial Training Quarters stands as a remembrance of the Pomona College men who lost their lives in the Great War. It represents the gift of the parents of one of those men, Sheldon Gerry, '17, supplemented by those of alumni, students and friends.

The Mason Hall of Chemistry, completed in 1922, the gift of Mr. W. S. Mason, is unsurpassed in structure and equipment for the study of Chemistry.

The Crookshank Hall of Zoology, completed in 1923, is the gift of Mr. D. C. Crookshank. It provides amply for the needs of the Department of Zoology.

The Marine Laboratory, located at Laguna Beach, has nine private rooms for special workers and two general laboratories, as well as storerooms, work rooms and aquarium room.

Various smaller buildings add to the completeness of the College plant.

The Library

The main library, of 44,000 books and 37,000 pamphlets, has been carefully selected, and represents a working library of exceptional value.

The College possesses the following library collections in addition to the main library: The Cook-Baker Biological Library, the Astronomical Library, the New England Collection, the Mason California Collection, and the Viola Minor Westergaard Art Collection.

The main library and the New England and Mason California Collections are housed in the Carnegie Library Building, the Cook-Baker Library in Crookshank Hall, the Astronomical Library in the F. P. Brackett Observatory, and the Westergaard Art Collection in Rembrandt Hall.

The library is a depository for the publications of the Carnegie Institution of Washington, and for the United States Government documents. The library has a well selected list of the most valuable scholastic and general periodicals.

DEPARTMENTAL ORGANIZATIONS

Under the general direction of various departments the following organizations have been formed:

The Pomona College Glee Club

The Pomona College Women's Glee Club

The Pomona College Choir

The Pomona College Symphony Orchestra

The Pomona College Band

The Astronomical Society

The Society of Pure and Applied Mathematics

The Literature Seminar

The History Club

Le Cercle Francais

El Circulo Espanol

Il Circolo Italiano

Der Deutsche Verein

STUDENT ACTIVITIES

THE ASSOCIATED STUDENTS. This association coordinates all student activities. Its officers are chosen by the student body from their own number. All important questions are considered by its executive committee, which is composed of those prominent in such varied lines as athletics, oratory, and the editorship of the Student Life. This body has charge of inter-collegiate as well as inter-class relations.

WOMEN'S ORGANIZATION. The women of the student body form a voluntary organization, electing their own officers and committees and holding regular meetings. This organization considers and promotes the social relations of the women.

CHRISTIAN ASSOCIATIONS. Branches of the Young Men's Christian Association and the Young Women's Christian Association are well organized and doing effective work. Representation in the inter-collegiate and state conventions and the visits of active workers from outside serve to maintain interest in the work both at home and abroad.

Literary, debating and dramatic organizations are represented by the following:

THE POMONA COLLEGE DEBATING CLUB

ALPHA KAPPA

THE POMONA COLLEGE LYCEUM

AREOPAGUS

DELTA LAMBDA

THE MASQUERS

THE COSMOPOLITAN CLUB has for its object the promotion of friendly relations among the various nationalities represented in Pomona College. Membership is open to any student or member of the Faculty whose home is outside of the United States or who has at some former time resided in a foreign country.

ATHLETICS. The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletics Council, composed of three members of the faculty and three students. Under the general manager there is a student manager for each sport.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in equipment and beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus, and athletic exercises and field sports are encouraged by the officers of the institution.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to all students. An invariable condition to the use of the pool is a semi-annual medical examination.

Students are required to maintain a certain standard of excellence in all their studies in order to represent the College on any of its athletic teams or other organizations coming before the public.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published bi-monthly. These include:

The *Annual Catalog.*

The *Annual Register of Alumni.*

The *Annual Register of Faculty and Students.*

The *Annual Announcement of Courses.*

Alumni and departmental publications are:

The Pomona College Quarterly Magazine, devoted to the interests of the College and Alumni.

The Journal of Entomology and Zoology, published under the auspices of the Department of Zoology.

The Publication of the Astronomical Society of Pomona College, published under the auspices of the Department of Astronomy.

The College Letter, issued by the College for the information of the alumni.

Student Publications

The *Student Life* is published tri-weekly by the student body and is devoted to current affairs.

Manuscript is a literary magazine issued four times a year.

The *Metate* is published each year by the Junior class, and contains material appropriate to a college annual.

The *Association Hand Book*, which contains material of value, especially to new students, is issued at the beginning of the year by the Christian Associations.

BUREAU OF APPOINTMENTS

A Bureau of Appointments is conducted in connection with the office of the Secretary of the Faculty for the benefit of members of the College who desire to teach after graduation. The purpose of the Bureau is to maintain a list of available positions and to recommend from the applicants registered those who are qualified for specific positions.

An opportunity is also offered graduates of the College who are already engaged in teaching, to register their present positions and to indicate whether they desire a change, and if so, under what conditions. An effort is made to further the desires of graduates so far as made known. The services of the Bureau are entirely gratuitous. Communications should be addressed to the Bureau of Appointments.

Summary of Students

November, 1924

Graduate Students	24
Seniors	189
Juniors	170
Sophomores	200
Freshmen	226
Specials	23
Total Enrollment	832

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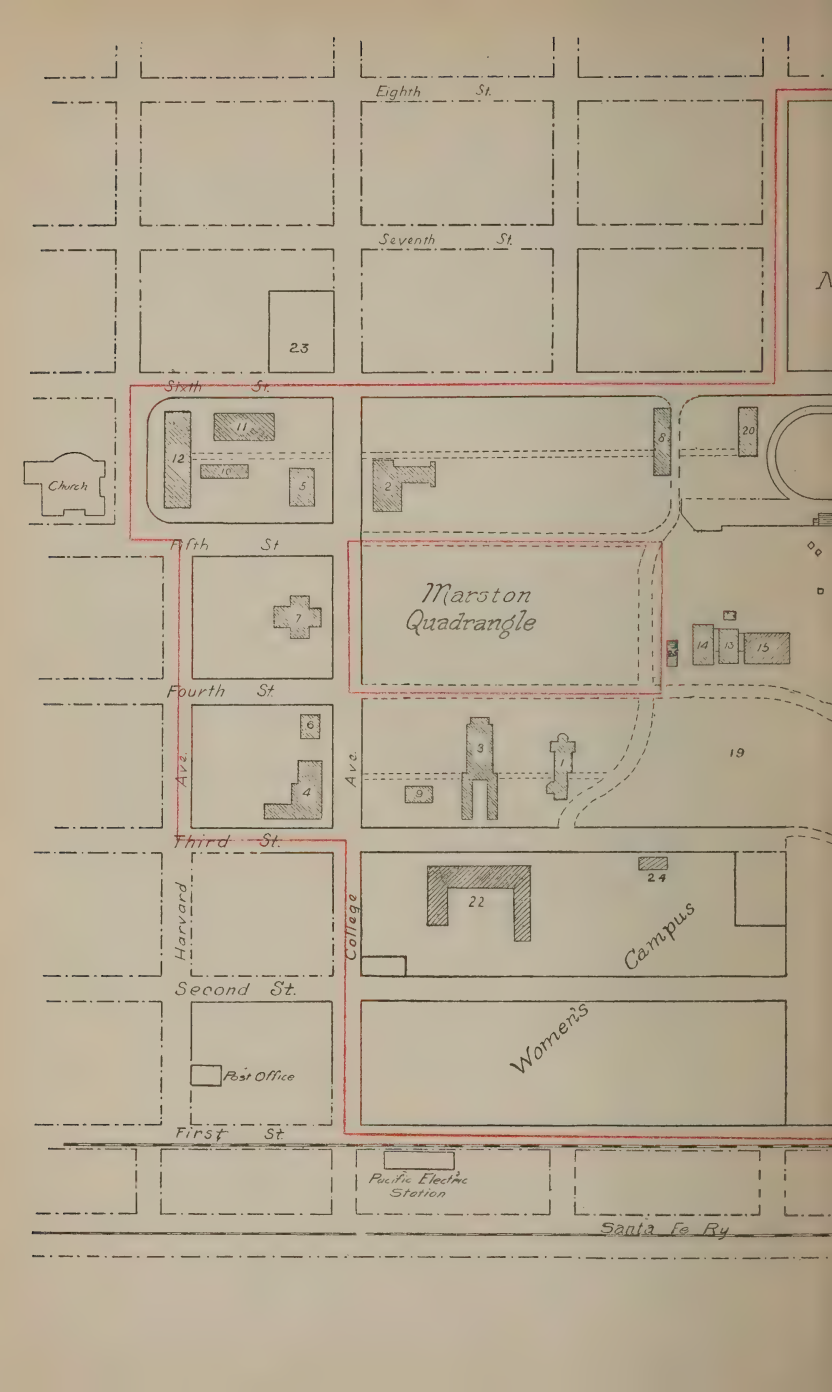
Eighth St.
Seventh St.
Sixth St.
Fifth St
Fourth St
Third St.
Second St.
First St
Church
Marston Quadrangle
Campus
Womens
Harvard Ave.
College Ave.
Post Office
Pacific Electric Station
Santa Fe Ry
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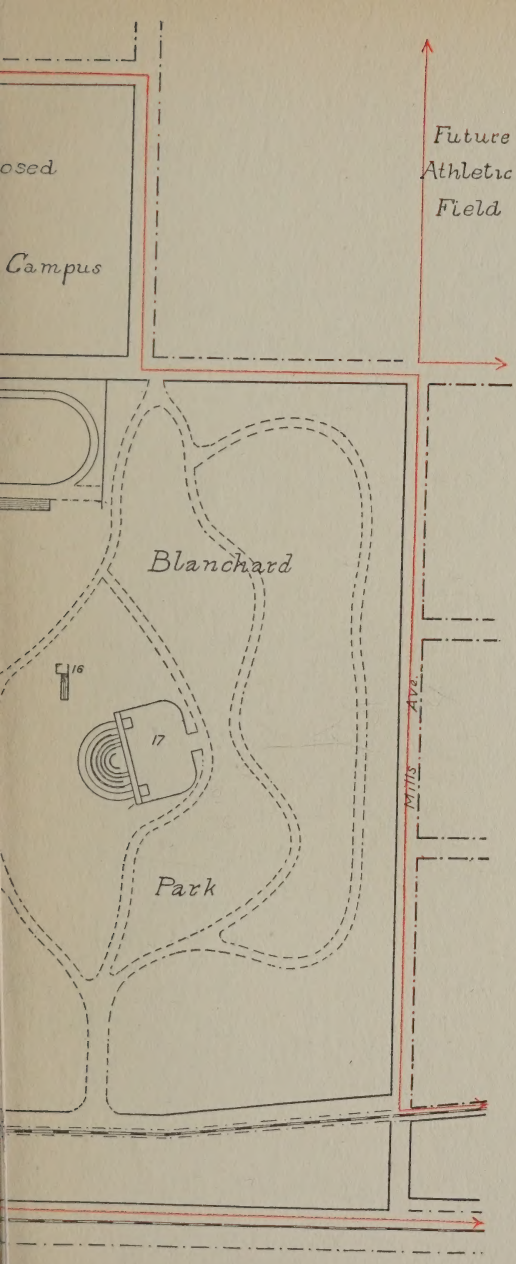

1. *Sumner Hall (Administration)*
2. *Holmes Hall (Recitation and Chapel)*
3. *Bridges Hall (Music)*
4. *The Inn and Commons*
5. *Pearsons Hall (Science)*
6. *The President's House*
7. *The Library*
8. *Smiley Hall (Men's Dormitory)*
9. *Rembrandt Hall (Art)*
10. *Harwood Hall (Botany)*
11. *Crookshank Hall (Zoology)*
12. *Mason Hall (Chemistry)*
13. } *Gymnasium*
14. } *Buildings*
15. }
16. *The Observatory*
17. *Open-air Theater*
18. *Baseball Diamond*
19. *Tennis Courts*
20. *Memorial Training Quarters*
21. *Alumni Athletic Field*
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23. *Site for President's House*
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